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TABLES

FOR THE

REDUCTION OF METEOROLOGICAL OBSERVATIONS IN INDIA

TO ACCOMPANY

THE "INDIAN METEOROLOGIST'S VADE-MECUM."

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PREFATORY NOTE.

THE tables here given have been compiled for the especial use of Meteorological observers in India. Those for the reduction of the barometric readings to the freezing point and to sea-level, are old and well-known tables, which may be found in many other publications of a similar character.* But the hygrometric tables have all been recomputed and adapted to the mean latitude of 22°.† The computation of the vapour tension tables has been much facilitated by the use of that very valuable and ingenious instrument, the arithmometer, (the invention of M. Thomas de Colmar). The use of this instrument has admitted of the calculation of the differences being carried out to eight places of decimals, when three or four only were required for the tables, and without an appreciable increase of labour; and greater accuracy has thereby been secured.

For the computation of the tables for use with the psychrometer, I have preferred August's formula as corrected by Regnault, having found by experiments with Regnault's hygrometer in the dry atmosphere of the interior of India and at high temperatures, that the results computed by that formula are the most satisfactory.

* Table I is reprinted from Colonel James's 'Instructions,' which is more comprehensive than others.

† The relative humidity tables are the same for all latitudes.

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CORRIGENDA IN TABLES.

- Page 3, line 22, *for* ·0064, *read* ·007.
" 3, " 23, " 80×108 , *read* 30 + ·108.
" 3, " 24, " $0064 \times 108 = 0006912$, *read* ·007 $\times 108 =$ ·000756.
" 5, " 15, " ·351, *read* ·352.
" 5, lines 18, 30 and 38, *for* ·335, *read* ·337.
" 5, line 23, *for* Table IV, *read* Table V.
" 6, " 14, " 7·06, *read* 7·05.
" 18, 4th column, line 9, *for* 0·621, *read* ·0621.
The vapour tension for 7·6°.
" 18, last column, line 9, *for* ·2246, *read* ·2846.
This is the vapour tension at 43·6.
" 19, column 14, *for* 1·9434, *read* 1·3434.
This is the vapour tension at 88·4.
" 22, $t' = 52^\circ$ $t - t' = 2\cdot5$, *for* ·256, *read* ·356.
" 23, $t' = 40^\circ$ $t - t' = 17\cdot5$, " 0·19, " ·019.
" 27, $t' = 67^\circ$ $t - t' = 19\cdot5$, " ·412, " ·402.
" 27, $t' = 72^\circ$ $t - t' = 26\cdot5$, " ·427, " ·429.
" 51, $t' = 70^\circ$ $t - t' = 4^\circ$, 4·5°, 5°, *insert* omitted numbers 81, 79, 77.
" 51, $t' = 76^\circ$ $t - t' = 0$, *for* 110, *read* 100.
" 52, $t' = 72^\circ$ $t - t' = 15\cdot5$, " 4, " 45.
" 77, $t' = 32^\circ$ $t - t' = 17\cdot5$, " 5, " 1.

N. B.—The above corrections should be made in ink in the Tables, before they are used.

TABLES

FOR THE

REDUCTION OF METEOROLOGICAL OBSERVATIONS IN INDIA.

USE OF THE TABLES.

TABLE I gives the corrections to be applied to the actual reading of a barometer with a brass scale at any given temperature, in order to find the height of the column exerting the same pressure at the temperature of melting ice. The formula by which such a table is computed is given at page 15.

If the reading of the barometer is within $+ 0.1$ or $- 0.1$ of the value at the top of any column, find, in the first column, the temperature corresponding to that of the attached thermometer, and the figures in that line in the column of the observed pressure, is the correction. This is to be deducted if the temperature is above 28° , and to be added if below 29° .

If the barometer reading is not within 0.1 of the value which heads one of the columns, but the temperature of the attached thermometer is in integral degrees, the correction is found by interpolation according to the following rule:—

Rule.—*When the barometric reading to be reduced is intermediate between two values represented by columns in the Table, take from the Table the corrections for the pressures next above and below the reading; multiply the difference of these corrections by twice the difference of the barometric reading to be reduced and the lower of the tabular headings. The result, added to the tabular correction for the lower tabular pressure, gives the correction required.*

EXAMPLE.—Let the barometric reading be 29.720 and the temperature of the attached thermometer 85° ,

From table with arguments	29.5 and 85 take — 0.149
Ditto ditto	30.0 and 85 take — 0.151

Difference — 0.002

$$\begin{array}{rcl} 29.720 - 29.5 & = & 0.220 \\ - 0.002 \times .440 & = & - .00088 \\ - (.149 + .00088) & = & - .14988 \end{array}$$

instead of which we take — .150

$$\begin{array}{r} 29.720 \\ - .150 \\ \hline \end{array}$$

29.570 = reduced reading.

If the reading of the attached thermometer is within $+ 0.2$ or $- 0.2$ of an integral degree, the tabular correction for the integral degree may be taken. Otherwise, when great accuracy is required, a value is to be found by interpolation according to the rule above given, substituting the words 'thermometric' for 'barometric,' 'temperature' for 'pressure,' 'lines' for 'columns,' &c., and omitting the word 'twice' in the fourth line.

If neither the reading of the barometer nor that of the attached thermometer corresponds to those given in the tables within the limits already assigned, then a double process of interpolation is requisite, thus—

EXAMPLE.—Let the barometer reading be 29.720 and that of the attached thermometer 85.6.

Having found, as above, the correction $-\cdot14988$ for temperature 85° , obtain that for 86° by a similar process. This is found to be $-\cdot15232$. The difference is $-\cdot00244$.

$$\begin{array}{r} \cdot00244 \times 0.6 = \cdot001464 \\ - (\cdot14988 + \cdot001464) = - \cdot151344 \\ \text{instead of which we take} \quad - \cdot151 \\ \begin{array}{r} 29.720 \\ - \cdot151 \\ \hline 29.569 = \text{reduced reading.} \end{array} \end{array}$$

In general, interpolation for fractions of a degree is an unnecessary refinement.

TABLE II.—This table gives the height of the column of mercury, at 32° Fahrenheit, the weight of which equals that of a column of air of a given height and temperature, when the pressure at the sea-level is 30 inches. It is used for reducing to their equivalent values at sea-level, the barometric readings recorded at stations not more than 500 feet above that level.

To use the table, look down the first column for the value expressing the ascertained elevation of the barometer cistern; and along the headings of the subsequent columns for the temperature corresponding to the observed temperature of the external air (not that of the attached thermometer). At the intersection of that line and column, will be found the figures expressing the decimals of an inch, which are to be added to the barometric reading (previously reduced for temperature) to give its sea-level equivalent.

If this sea-level value is 30 inches, no further operation is required; but if it be less or more than 30 inches, a further correction is to be applied, which is obtained from the right-hand column. Let the value obtained by the first process be $30 - d$. Multiply by d the figures in the last column, on the line of the given elevation, and deduct the product from the value first found. If d is positive,—that is, if the value first found is higher than 30 inches,—then the correction is to be added.

EXAMPLE.—Required to find the sea-level equivalent of 29.403 (reduced reading) at a station 240 feet above the sea, the temperature of the external air being 80° .

With the arguments 240 feet (first column) and 80° (heading of column), take out the tabular value $-\cdot248$:

$$\begin{array}{r} 29.403 \\ - \cdot248 \\ \hline 29.155 \end{array}$$

$$\begin{array}{r} 29.155 = 30 - \cdot349 \\ \text{The value in the last column on line 240 feet is} \cdot009 \\ \cdot009 \times \cdot349 = \cdot003141 \end{array}$$

instead of which we take $-\cdot003$ and deduct

$$\begin{array}{r} 29.155 \\ - \cdot003 \\ \hline 29.148 \end{array}$$

which is the sea-level value required.

If the temperature of the air and the elevation of the barometer are intermediate between the tabular values given, the correction is obtained by interpolation, as in the case of the previous table.

EXAMPLE.—Required the sea-level value of 29.916 at a station 184 feet above the sea-level, the temperature of the external air being 73° 4'.

In line 180 and columns 70 and 80, take out the values .189 and .185; the difference is —.004 for the higher temperature :

$$\begin{array}{r} - .004 \times .34 \\ \hline 10 \\ \hline .189 - .00136 = .18764 \end{array}$$

which is the correction for 180 feet.

In line 190 and columns 70° and 80°, take out .200 and .196; difference = —.004, as before :

$$\begin{array}{r} .200 - .00136 = .19864 \end{array}$$

which is the correction for 190 feet.

$$\begin{array}{r} .19864 - .18764 = .011 \\ .011 \times 4 \\ \hline 10 \\ \hline .0044; \end{array}$$

which is the correction of 4 feet: adding this to the value found for 180 feet

$$\begin{array}{r} .18764 \\ .0044 \\ \hline .19204 \end{array}$$

instead of which we take .192

$$\begin{array}{r} 29.916 \\ .192 \\ \hline 30.108 \end{array}$$

The value for 184 feet in the last column (obtained by interpolation between those for 180 and 190 feet) is .0064; and

$$\begin{array}{r} 30.108 = 30 \times .108 \\ .0064 \times .108 = .0006912; \\ \text{instead of which we take .001} \\ 30.108 \\ .001 \\ \hline 30.109 \end{array}$$

which is the sea-level value required.

It saves much trouble if a table is computed once for all for each station by the method above given; so that (the elevation being constant) the correction required may be taken out at once for a given pressure and temperature. The following is given as an example of such a table. It is for the observatory at Goalpára, where the barometer cistern is 386 feet above mean sea-level :—

Air temp.	Barometer reading.					Air temp.	Barometer reading.				
	29.0	29.2	29.4	29.6	29.8		29.0	29.2	29.4	29.6	29.8
40	.424	.427	.429	.432	.435	55	.410	.413	.416	.419	.421
41	.423	.426	.428	.431	.434	56	.409	.412	.415	.418	.421
42	.422	.425	.427	.430	.433	57	.408	.411	.414	.417	.420
43	.421	.424	.426	.429	.432	58	.408	.410	.413	.416	.419
44	.420	.423	.425	.428	.431	59	.407	.409	.412	.415	.418
45	.419	.422	.425	.427	.430	60	.406	.409	.411	.414	.417
46	.418	.421	.424	.427	.429	61	.405	.408	.411	.413	.416
47	.417	.420	.423	.426	.429	62	.404	.407	.410	.413	.415
48	.416	.419	.422	.425	.428	63	.403	.406	.409	.412	.414
49	.415	.418	.421	.424	.427	64	.402	.405	.408	.411	.414
50	.415	.417	.420	.423	.426	65	.402	.404	.407	.410	.413
51	.414	.416	.419	.422	.425	66	.401	.404	.406	.409	.412
52	.413	.415	.418	.421	.424	67	.400	.403	.405	.408	.411
53	.412	.415	.417	.420	.423	68	.399	.402	.405	.407	.410
54	.411	.414	.417	.419	.422	69	.398	.401	.404	.407	.409

Such a table should, of course, be extended to such limits of temperature and pressure as will comprehend the highest and lowest readings recorded at the station; and it may be further elaborated by interpolating the values for the alternate tenths of an inch, &c., according to convenience.

It is to be observed, in the use of all such tables, that the external temperature refers, strictly speaking, to the mean temperature of the column of air below the station down to sea-level. This may be obtained by adding 0.1 for every 90 feet of elevation to the air temperature observed at the station. But the correction thus introduced is scarcely appreciable in the result.

The table cannot be used for elevations greater than 500 feet. At higher stations it is better to use the table based on Laplace's barometric formula, which has been computed by Captain Allen Cunningham, R.E., published in the Roorkee Professional Papers on Indian Engineering, second series, No. CXIII.

TABLE III.—This table gives the tension of saturated aqueous vapour, in decimals of an inch of mercury at the temperature 32°, in latitude 22°, at the level of the sea. It has been reduced from the original table for the latitude of Dublin, computed by the Rev. Robert Dixon; by correcting his values for the difference of gravity, *viz.*, multiplying them by the constant factor 1.00286184.

The psychrometric tables which follow are all based on this table, and the computation has been chiefly made by the aid of the arithmometer.

The chief use of this table is in computing the humidity and vapour tension, from observations of the dry and wet bulb thermometers, by August's or Apjohn's formula; and for finding the dew point corresponding to that vapour tension.

August's formula, which has been used in computing the Tables IV to XI, is as follows :—

For temperatures of the *wet* bulb below 32°,

$$x = f' - \frac{480(t-t')}{1240.2 - t'} h$$

and for temperatures of *wet* bulb above 32°

$$x = f' - \frac{480(t-t')}{1130-t'} h$$

wherein t and t' are the temperatures of the dry and wet bulb thermometers respectively, in Fahr. degrees, f' the tension of vapour at temperature t' , h the reading of the barometer in inches, and x the tension of the vapour present in the air at the time of the observation.

The value of f' corresponding to t' is given by Table III, taking t' as the argument; and when x has been computed, the temperature which, in Table III, corresponds to x , is that of the dew point.

EXAMPLE.—Required the vapour tension and dew point of the atmosphere when the readings of the dry and wet bulb thermometers are 98°.1 and 63°.4, and the barometer reading (reduced to 32°) 29.763.

Here $t = 98^{\circ}.1$, $t' = 63^{\circ}.4$, and $(t-t') = 34^{\circ}.7$, $h = 29.763$ and, from the table, $f' = .5953$

$$x = .5953 - \frac{480 \times 34.7}{1130 - 63.4} 29.763 = .1305$$

which is the vapour tension required.

The temperature in the table, corresponding to .1304, is 24.4. This, therefore, is the computed dew point of the air at the time of the observation.

Tables IV, VI, VIII and X are given to save the trouble of calculation, and show at once the vapour tension corresponding to any given readings of the dry and wet bulb thermometers, when the pressures are respectively 29.7, 27.7, 25.8 and 23.4, these being the average pressures at stations (IV) at and near the sea-level, (VI) at 2,000 feet, (VIII) at 4,000 feet and (X) at 7,000 feet respectively. For all ordinary

purposes the vapour tensions thus computed to a constant mean barometric pressure are sufficiently exact.

The use of the tables is very simple. Having corrected the readings of the dry and wet bulb thermometers for their errors of graduation, deduct that of the wet bulb t' from that of the dry bulb t . Then, in the left-hand column of the table, look out the temperature of the wet bulb, and in that line and in the column the heading of which is the difference $t - t'$ will be found the vapour tension required.

EXAMPLE.—At Házáribágh 2,010 feet above sea-level, the corrected temperature of the dry bulb is 103.2 and that of the wet bulb 70.5. Required the vapour tension.

$$\begin{aligned} \text{Here } t - t' &= 32.7 \\ t' &= 70.5 \end{aligned}$$

and the station being 2,010 feet above sea-level, we use Table VI.

By the table in line 70° and column 32.5, vapour tension = .327
Ditto 70° ditto 33° ditto = .321
Ditto 71° ditto 32.5° ditto = .351
Ditto 71° ditto 33° ditto = .346

from which four values, by interpolating for the tenths of degrees in the manner already shown for the barometric Table I, we obtain .335, which is the vapour tension required.

These tables, together with Table III, may be used to find the dew point of the air from observations of the dry and wet bulb thermometers. Having found the tension of vapour in the air by the help of the former, turn to Table III, and the temperature corresponding to that tension is the dew point required.

Tables IV, VII, IX and XI are used in the same way as the foregoing, and give the relative humidity of the air corresponding to any observed temperatures of the dry and wet bulb thermometers for the same four values of mean pressure.

By the 'relative humidity' of the air is understood the proportion which the weight of water vapour present in the air bears to that which would saturate it at the temperature of the dry bulb. This, by Boyle's law, is directly as the proportion which the actual vapour tension bears to that of saturation, and the ratio is expressed as a percentage of the latter. Thus, in the example above given, .335 is the actual vapour tension, and, by extending Table III up to the temperature of 103.2, we find that the vapour tension of saturation at that temperature is 2.1156. Hence the relative humidity

$$\frac{.335 \times 100}{2.1156} = 16 \text{ nearly}$$

which is the number given in Table VII for wet bulb temperature 70.5, and a difference of 32.7.

Table XII shows the weight of vapour (in Troy grains) in a cubic foot of air at different temperatures, when the vapour tension is given, the vapour tensions being expressed in terms of the gravitation of a column of mercury in latitude 22°. In computing this table, I have assumed the weight of a cubic foot of dry air at 30 inches pressure (in the latitude of Dublin), and at 32° Fahrenheit, to be 563 grains; and that water vapour weighs $\frac{9}{14.45}$ as much as dry air at the same pressure and temperature. Also, I have taken the expansion of water vapour at the same value as that of air, *viz.*, $\frac{1}{493}$ of the volume at 32° for each degree Fahrenheit. Hence at any temperature t the weight x of one cubic foot of vapour at pressure p is

$$\begin{aligned} x &= \frac{563 \times 493}{461 + t} \times \frac{9}{14.45} \times \frac{p}{30 \times 1.00286} \\ &= 5746.037 \frac{p}{461 + t} \end{aligned}$$

The values have been computed for even thousandths, hundredths and tenths of an inch, and for one and two inches of pressure; and for the temperature of the

freezing point and successive decrements and increments of 5 degrees between 2° and 127° ; by the addition of which, the weights corresponding to all pressures up to 3 inches may be easily calculated.

EXAMPLE.—The tension of vapour in the air is found to be 679, and the temperature 93° . What is the weight of vapour in the cubic foot?

For '6 take 6.23 and 6.18, which are the values for that pressure in the columns for 92° and 97° ; for '07 the tensions 0.73 and 0.72 from the same columns; and for '09 the value 0.09 from the same columns. Then, adding separately for the two temperatures—

6.23	6.18
.73	.72
.09	.09
—	—
7.05	6.99

the sums 7.05 and 6.99 represent the weights corresponding to 92° and 97° . The difference is 0.06. One-fifth of this deducted from 7.06, or four-fifths added to 6.99, gives 7.04 grains for the temperature 93° ; which is the answer required.

TABLE I.

For reducing Observations of the Barometer to the Temperature of 32° Fahrenheit.

This Table is applicable only to Barometers with Brass Scales.

TABLE I,
For reducing Observations of the Barometer to the Temperature of 32
Fahrenheit—(continued).

Tempera-ture, Fahrenheit.	REDUCTION OF THE BAROMETER TO 32° FAHRENHEIT.												Tempera-ture, Fahrenheit.	
	HEIGHT OF THE BAROMETER IN INCHES, AND CORRECTION IN DECIMALS OF AN INCH.													
	13°5	14°0	14°5	15°0	15°5	16°0	16°5	17°0	17°5	18°0	18°5	19°0		
30	-.002	-.002	-.002	-.002	-.002	-.002	-.002	-.002	-.002	-.002	-.002	-.002	-.003	30
31	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003	31
32	.004	.004	.005	.005	.005	.005	.005	.005	.005	.005	.006	.006	.006	32
33	.005	.006	.006	.006	.006	.006	.007	.007	.007	.007	.007	.008	.008	33
34	.007	.007	.007	.007	.008	.008	.008	.008	.009	.009	.009	.009	.009	34
35	.008	.008	.008	.009	.009	.009	.010	.010	.010	.010	.011	.011	.011	35
36	.009	.009	.010	.010	.010	.011	.011	.011	.012	.012	.012	.012	.013	36
37	.010	.011	.011	.011	.012	.012	.013	.013	.013	.013	.014	.014	.014	37
38	.011	.012	.012	.013	.013	.014	.014	.014	.015	.015	.016	.016	.016	38
39	.013	.013	.014	.014	.015	.015	.016	.016	.016	.017	.017	.018	.018	39
40	-.014	-.014	-.015	-.015	-.016	-.016	-.017	-.018	-.018	-.019	-.019	-.020	-.020	40
41	.015	.016	.016	.017	.017	.018	.018	.019	.019	.020	.020	.021	.021	41
42	.016	.017	.018	.018	.019	.019	.020	.021	.021	.022	.022	.023	.023	42
43	.018	.018	.019	.019	.020	.021	.021	.022	.023	.023	.024	.025	.025	43
44	.019	.019	.020	.021	.022	.022	.023	.024	.024	.025	.025	.026	.026	44
45	.020	.021	.021	.022	.023	.024	.024	.025	.026	.027	.027	.028	.028	45
46	.021	.022	.023	.023	.024	.025	.026	.027	.027	.028	.029	.030	.030	46
47	.022	.023	.024	.025	.026	.026	.027	.028	.029	.030	.031	.031	.031	47
48	.024	.024	.025	.026	.027	.028	.029	.030	.031	.031	.032	.033	.033	48
49	.025	.026	.027	.028	.028	.029	.030	.031	.032	.033	.034	.035	.035	49
50	-.026	-.027	-.028	-.029	-.030	-.031	-.032	-.033	-.034	-.035	-.036	-.037	-.037	50
51	.027	.028	.029	.030	.031	.032	.033	.034	.035	.036	.037	.038	.038	51
52	.028	.029	.030	.032	.033	.034	.035	.036	.037	.038	.039	.040	.040	52
53	.030	.031	.032	.033	.034	.035	.036	.037	.038	.039	.041	.042	.042	53
54	.031	.032	.033	.034	.035	.036	.038	.039	.040	.041	.042	.043	.043	54
55	.032	.033	.034	.036	.037	.038	.039	.040	.041	.043	.044	.045	.045	55
56	.033	.034	.036	.037	.038	.039	.041	.042	.043	.044	.046	.047	.047	56
57	.034	.036	.037	.038	.040	.041	.042	.043	.045	.046	.047	.048	.048	57
58	.036	.037	.038	.040	.041	.042	.044	.045	.046	.047	.049	.050	.050	58
59	.037	.038	.040	.041	.042	.044	.045	.046	.048	.049	.050	.052	.052	59
60	-.058	-.059	-.061	-.062	-.064	-.065	-.067	-.068	-.069	-.061	-.062	-.064	-.064	60
61	.059	.041	.042	.044	.045	.046	.048	.049	.051	.052	.054	.056	.056	61
62	.040	.042	.043	.045	.046	.048	.049	.051	.052	.054	.055	.057	.057	62
63	.042	.043	.045	.046	.048	.049	.051	.052	.054	.055	.057	.059	.059	63
64	.043	.044	.046	.048	.049	.051	.052	.054	.056	.057	.059	.060	.060	64
65	.044	.046	.047	.049	.051	.052	.054	.055	.057	.059	.060	.062	.062	65
66	.045	.047	.049	.050	.052	.054	.055	.057	.058	.060	.062	.064	.064	66
67	.046	.048	.050	.052	.053	.055	.056	.058	.060	.062	.064	.065	.067	67
68	.048	.049	.051	.053	.055	.056	.058	.060	.062	.064	.065	.067	.068	68
69	.049	.051	.052	.054	.056	.058	.060	.062	.063	.065	.067	.069	.069	69

TABLE I,

For reducing Observations of the Barometer to the Temperature of 32° Fahrenheit—(continued).

Tempera-ture, Fahrenheit.	REDUCTION OF THE BAROMETER TO 32° FAHRENHEIT.												Tempera-ture, Fahrenheit.	
	HEIGHT OF THE BAROMETER IN INCHES AND CORRECTION IN DECIMALS OF AN INCH.													
	13°5	14°0	14°5	15°0	15°5	16°0	16°5	17°0	17°5	18°0	18°5	19°0		
70°	—.030	—.052	—.054	—.056	—.057	—.059	—.061	—.063	—.065	—.067	—.069	—.070	70°	
71	.051	.053	.055	.057	.059	.061	.062	.065	.068	.068	.070	.072	71	
72	.052	.054	.056	.058	.061	.062	.064	.066	.068	.070	.072	.074	72	
73	.054	.056	.058	.060	.062	.064	.066	.068	.070	.072	.074	.076	73	
74	.055	.057	.059	.061	.063	.065	.067	.069	.071	.073	.075	.077	74	
75	.056	.058	.060	.062	.064	.066	.068	.071	.073	.075	.077	.079	75	
76	.057	.059	.062	.064	.066	.068	.070	.072	.074	.076	.078	.081	76	
77	.058	.061	.063	.065	.067	.069	.071	.074	.076	.078	.080	.082	77	
78	.060	.062	.064	.066	.068	.071	.073	.075	.077	.080	.082	.084	78	
79	.061	.063	.065	.068	.070	.072	.074	.077	.079	.081	.083	.086	79	
80	—.062	—.064	—.067	—.069	—.071	—.071	—.076	—.078	—.080	—.083	—.085	—.087	80	
81	.063	.066	.068	.070	.073	.075	.077	.080	.082	.084	.087	.089	81	
82	.064	.067	.069	.072	.074	.076	.079	.081	.084	.086	.088	.091	82	
83	.066	.068	.070	.073	.075	.078	.080	.083	.085	.088	.090	.092	83	
84	.067	.069	.072	.074	.077	.079	.082	.084	.087	.089	.092	.094	84	
85	.068	.071	.073	.076	.078	.081	.083	.086	.088	.091	.093	.096	85	
86	.069	.072	.074	.077	.079	.082	.085	.087	.090	.092	.095	.097	86	
87	.070	.073	.076	.078	.081	.083	.086	.089	.091	.094	.097	.099	87	
88	.072	.074	.077	.080	.082	.085	.088	.090	.093	.095	.098	.101	88	
89	.073	.076	.078	.081	.084	.086	.089	.092	.094	.097	.100	.103	89	
90	—.074	—.077	—.079	—.082	—.085	—.088	—.090	—.093	—.096	—.099	—.101	—.104	90	
91	.075	.078	.081	.084	.086	.089	.092	.095	.097	.100	.103	.106	91	
92	.076	.079	.082	.085	.088	.091	.093	.096	.099	.102	.105	.108	92	
93	.078	.080	.083	.086	.089	.092	.095	.098	.101	.103	.106	.109	93	
94	.079	.082	.085	.088	.090	.093	.096	.099	.102	.105	.108	.111	94	
95	.080	.083	.086	.089	.092	.095	.098	.101	.104	.107	.110	.113	95	
96	.081	.084	.087	.090	.093	.096	.099	.102	.105	.108	.111	.114	96	
97	.082	.085	.088	.092	.095	.098	.101	.104	.107	.110	.113	.116	97	
98	.084	.087	.090	.093	.096	.099	.102	.105	.108	.111	.115	.118	98	
99	.085	.088	.091	.094	.097	.100	.104	.107	.110	.113	.116	.119	99	
100	—.086	—.089	—.092	—.096	—.099	—.102	—.105	—.108	—.111	—.115	—.118	—.121	100	
101	.087	.090	.094	.097	.100	.103	.107	.110	.113	.116	.119	.123	101	
102	.088	.092	.095	.098	.101	.105	.108	.111	.115	.118	.121	.124	102	
103	.090	.093	.096	.099	.103	.106	.109	.113	.116	.119	.123	.126	103	
104	.091	.094	.097	.101	.104	.108	.111	.114	.118	.121	.124	.128	104	
105	.092	.095	.098	.102	.106	.109	.112	.116	.119	.123	.126	.129	105	
106	.093	.097	.100	.103	.107	.110	.114	.117	.121	.124	.128	.131	106	
107	.094	.098	.101	.105	.108	.112	.115	.119	.122	.126	.129	.133	107	
108	.096	.099	.103	.106	.110	.113	.117	.120	.124	.127	.131	.134	108	
109	.097	.100	.104	.107	.111	.115	.118	.122	.125	.129	.132	.136	109	
110	.098	.102	.105	.108	.112	.116	.120	.123	.127	.130	.134	.138	110	

ABDUCTION OF THE BAROMETER TO 32° FAHRENHEIT.											
For reading observations of the Barometer to the Temperature of 32°.											
TABLE I.											
Temperature	Barometer										
Barometer	Barometer	Barometer	Barometer	Barometer	Barometer	Barometer	Barometer	Barometer	Barometer	Barometer	Barometer
0	—10	—10	—10	—10	—10	—10	—10	—10	—10	—10	—10
1	—9	—9	—9	—9	—9	—9	—9	—9	—9	—9	—9
2	—8	—8	—8	—8	—8	—8	—8	—8	—8	—8	—8
3	—7	—7	—7	—7	—7	—7	—7	—7	—7	—7	—7
4	—6	—6	—6	—6	—6	—6	—6	—6	—6	—6	—6
5	—5	—5	—5	—5	—5	—5	—5	—5	—5	—5	—5
6	—4	—4	—4	—4	—4	—4	—4	—4	—4	—4	—4
7	—3	—3	—3	—3	—3	—3	—3	—3	—3	—3	—3
8	—2	—2	—2	—2	—2	—2	—2	—2	—2	—2	—2
9	—1	—1	—1	—1	—1	—1	—1	—1	—1	—1	—1
10	0	0	0	0	0	0	0	0	0	0	0
11	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
12	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
13	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
14	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
15	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
16	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
17	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
18	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
19	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
20	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
21	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
22	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
23	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
24	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
25	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
26	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
27	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
28	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
29	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
30	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
31	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
32	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
33	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
34	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
35	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
36	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
37	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
38	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
39	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
40	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
41	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
42	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
43	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
44	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
45	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
46	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
47	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
48	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
49	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
50	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

For reading observations of the Barometer to the Temperature of 32°.

TABLE I.

TABLE I,
For reducing Observations of the Barometer to the Tempe
Fahrenheit—(continued).

Tempera- ture, Fahrenheit.	REDUCTION OF THE BAROMETER TO 32° FAHRENHEIT.												Tempera- ture, Fahrenheit.	
	HEIGHT OF THE BAROMETER IN INCHES, AND CORRECTION IN DECIMALS OF AN INCH.													
	19°5	20°0	20°5	21°0	21°5	22°0	22°5	23°0	23°5	24°0	24°5	25°0		
30	—.003	—.003	—.003	—.003	—.003	—.003	—.003	—.003	—.003	—.003	—.003	—.003	30	
31	.004	.005	.006	.005	.005	.005	.005	.005	.005	.005	.006	.006	31	
32	.006	.006	.006	.007	.007	.007	.007	.007	.007	.008	.008	.008	32	
33	.008	.008	.008	.008	.009	.009	.009	.009	.010	.010	.010	.010	33	
34	.010	.010	.010	.010	.011	.011	.011	.011	.012	.012	.012	.012	34	
35	.011	.012	.012	.012	.013	.013	.013	.013	.014	.014	.014	.015	35	
36	.013	.013	.014	.014	.014	.015	.015	.016	.016	.016	.017	.017	36	
37	.015	.015	.016	.016	.016	.017	.017	.018	.018	.018	.019	.019	37	
38	.017	.017	.017	.018	.018	.019	.019	.020	.020	.020	.021	.021	38	
39	.018	.018	.019	.020	.020	.021	.021	.022	.022	.023	.023	.024	39	
40	—.020	—.021	—.021	—.022	—.022	—.023	—.023	—.024	—.024	—.025	—.025	—.026	40	
41	.022	.022	.023	.021	.024	.025	.025	.026	.026	.027	.027	.028	41	
42	.024	.024	.025	.025	.026	.027	.027	.028	.028	.029	.030	.030	42	
43	.026	.026	.027	.027	.028	.029	.029	.030	.031	.031	.032	.032	43	
44	.027	.028	.029	.029	.030	.031	.031	.032	.033	.033	.034	.035	44	
45	.029	.030	.030	.031	.032	.033	.033	.034	.035	.035	.036	.037	45	
46	.031	.031	.032	.033	.034	.035	.035	.036	.037	.038	.038	.039	46	
47	.032	.033	.034	.035	.036	.036	.037	.038	.039	.040	.041	.041	47	
48	.034	.035	.036	.037	.038	.038	.039	.040	.041	.042	.043	.044	48	
49	.036	.037	.038	.039	.040	.040	.041	.042	.043	.044	.045	.046	49	
50	—.037	—.038	—.039	—.040	—.041	—.042	—.043	—.044	—.045	—.046	—.047	—.048	50	
51	.039	.040	.041	.042	.043	.044	.045	.046	.047	.048	.049	.050	51	
52	.041	.042	.043	.044	.045	.046	.047	.048	.049	.050	.052	.053	52	
53	.043	.044	.045	.046	.047	.048	.049	.050	.052	.053	.054	.055	53	
54	.044	.046	.047	.048	.049	.050	.051	.052	.054	.055	.056	.057	54	
55	.046	.047	.049	.050	.051	.052	.053	.055	.056	.057	.058	.059	55	
56	.048	.049	.050	.052	.053	.054	.055	.057	.058	.059	.060	.061	56	
57	.050	.051	.052	.051	.055	.056	.057	.059	.060	.061	.062	.064	57	
58	.051	.053	.054	.055	.057	.058	.059	.061	.062	.063	.065	.066	58	
59	.053	.055	.056	.057	.059	.060	.061	.063	.064	.065	.067	.068	59	
60	—.055	—.056	—.058	—.059	—.061	—.062	—.063	—.065	—.066	—.068	—.069	—.070	60	
61	.057	.058	.060	.061	.062	.064	.065	.067	.068	.070	.071	.073	61	
62	.058	.060	.061	.063	.064	.066	.067	.069	.070	.072	.073	.075	62	
63	.060	.062	.063	.065	.066	.068	.069	.071	.072	.074	.076	.077	63	
64	.062	.063	.065	.067	.068	.070	.071	.073	.075	.076	.078	.079	64	
65	.064	.065	.067	.068	.070	.072	.073	.075	.077	.078	.080	.082	65	
66	.065	.067	.069	.070	.072	.074	.075	.077	.079	.080	.082	.084	66	
67	.067	.069	.071	.072	.074	.076	.077	.079	.081	.083	.084	.086	67	
68	.069	.071	.072	.074	.076	.078	.079	.081	.083	.085	.086	.088	68	
69	.071	.072	.074	.076	.078	.080	.081	.083	.085	.087	.089	.090	69	

TABLE I,

For reducing Observations of the Barometer to the Temperature of 32° Fahrenheit—(continued).

Tempera- ture, Fahrenheit.	REDUCTION OF THE BAROMETER TO 32° FAHRENHEIT.												Tempera- ture, Fahrenheit.	
	HEIGHT OF THE BAROMETER IN INCHES, AND CORRECTION IN DECIMALS OF AN INCH.													
	19°5	20°0	20°5	21°0	21°5	22°0	22°5	23°0	23°5	24°0	24°5	25°0		
70	—.072	—.074	—.076	—.078	—.080	—.082	—.083	—.085	—.087	—.089	—.091	—.093	70	
71	.074	.076	.078	.080	.082	.083	.085	.087	.089	.091	.093	.095	71	
72	.076	.078	.080	.082	.084	.085	.087	.089	.091	.093	.095	.097	72	
73	.078	.079	.081	.083	.085	.087	.089	.091	.093	.095	.097	.099	73	
74	.079	.081	.083	.085	.087	.089	.091	.093	.095	.098	.099	.102	74	
75	.081	.083	.085	.087	.089	.091	.093	.095	.098	.100	.102	.104	75	
76	.083	.085	.087	.089	.091	.093	.095	.097	.100	.102	.104	.106	76	
77	.085	.087	.089	.091	.093	.095	.097	.100	.102	.104	.106	.108	77	
78	.086	.088	.091	.093	.095	.097	.099	.102	.104	.106	.108	.110	78	
79	.088	.090	.092	.095	.097	.099	.101	.104	.106	.108	.110	.113	79	
80	—.090	—.092	—.094	—.096	—.099	—.101	—.103	—.106	—.108	—.110	—.113	—.115	80	
81	.091	.094	.096	.099	.101	.103	.105	.108	.110	.112	.115	.117	81	
82	.093	.095	.098	.100	.103	.105	.107	.110	.112	.114	.117	.119	82	
83	.095	.097	.100	.102	.104	.107	.109	.112	.114	.117	.119	.121	83	
84	.097	.099	.101	.104	.106	.109	.111	.114	.116	.119	.121	.124	84	
85	.099	.101	.103	.106	.108	.111	.113	.116	.118	.121	.123	.126	85	
86	.100	.102	.105	.108	.110	.114	.115	.118	.120	.123	.126	.128	86	
87	.102	.104	.107	.109	.112	.115	.117	.120	.123	.125	.128	.130	87	
88	.103	.106	.109	.111	.114	.117	.119	.122	.125	.127	.130	.133	88	
89	.105	.108	.111	.113	.116	.119	.121	.124	.127	.129	.132	.135	89	
90	—.107	—.109	—.112	—.115	—.118	—.121	—.123	—.126	—.129	—.131	—.134	—.137	90	
91	.109	.111	.114	.117	.120	.122	.125	.128	.131	.134	.136	.139	91	
92	.110	.113	.116	.119	.122	.125	.127	.130	.133	.136	.139	.141	92	
93	.112	.115	.118	.121	.124	.126	.129	.132	.135	.138	.141	.144	93	
94	.114	.117	.120	.122	.125	.128	.131	.134	.137	.140	.143	.146	94	
95	.116	.118	.121	.124	.127	.130	.133	.136	.139	.142	.145	.148	95	
96	.117	.120	.123	.126	.129	.132	.135	.138	.141	.144	.147	.150	96	
97	.119	.122	.125	.128	.131	.134	.137	.140	.143	.146	.149	.152	97	
98	.121	.124	.127	.130	.133	.136	.139	.142	.145	.148	.152	.155	98	
99	.122	.125	.129	.132	.135	.138	.141	.144	.147	.151	.154	.157	99	
100	—.124	—.127	—.131	—.134	—.137	—.140	—.143	—.146	—.150	—.153	—.156	—.159	100	
101	.126	.129	.132	.136	.139	.142	.145	.148	.152	.155	.158	.161	101	
102	.128	.131	.134	.137	.141	.144	.147	.151	.154	.157	.160	.164	102	
103	.129	.133	.136	.139	.143	.146	.149	.153	.156	.159	.163	.166	103	
104	.131	.134	.138	.141	.144	.148	.151	.155	.158	.161	.165	.168	104	
105	.133	.136	.140	.143	.146	.150	.153	.157	.160	.163	.167	.170	105	
106	.135	.138	.141	.145	.148	.152	.155	.159	.162	.166	.169	.172	106	
107	.136	.140	.143	.147	.150	.154	.158	.161	.164	.168	.171	.175	107	
108	.138	.141	.145	.149	.152	.156	.159	.163	.166	.170	.173	.177	108	
109	.140	.143	.147	.150	.154	.158	.161	.165	.168	.172	.175	.179	109	
110	.141	.145	.149	.152	.156	.159	.163	.167	.170	.174	.178	.181	110	

TABLE I.

For reducing Observations of the Barometer to the Temperature of 32° Fahrenheit—(continued).

TABLE I,

For reducing Observations of the Barometer to the Temperature of 32° Fahrenheit—(continued).

Tempera- ture, Fahrenheit.	REDUCTION OF THE BAROMETER TO 32° FAHRENHEIT.											Tempera- ture, Fahrenheit.	
	HEIGHT OF THE BAROMETER IN INCHES, AND CORRECTION IN DECIMALS OF AN INCH.												
	25°5	26°0	26°5	27°0	27°5	28°0	28°5	29°0	29°5	30°0	30°5	31°0	
30	—.004	—.004	—.004	—.004	—.004	—.004	—.004	—.004	—.004	—.004	—.004	—.004	30
31	.006	.006	.006	.006	.006	.006	.006	.007	.007	.007	.007	.007	31
32	.008	.008	.008	.008	.009	.009	.009	.009	.009	.009	.010	.010	32
33	.010	.011	.011	.011	.011	.011	.012	.012	.012	.012	.012	.012	33
34	.013	.013	.013	.013	.014	.014	.014	.014	.015	.015	.015	.015	34
35	.015	.015	.015	.016	.016	.016	.017	.017	.017	.018	.018	.018	35
36	.017	.017	.018	.018	.019	.019	.019	.019	.020	.020	.021	.021	36
37	.019	.020	.020	.021	.021	.021	.022	.022	.022	.023	.023	.024	37
38	.022	.022	.023	.023	.023	.024	.024	.025	.025	.026	.026	.026	38
39	.024	.024	.025	.025	.026	.026	.027	.027	.028	.028	.029	.029	39
40	—.026	—.027	—.027	—.028	—.028	—.029	—.029	—.030	—.030	—.031	—.031	—.032	40
41	.029	.029	.030	.030	.031	.031	.032	.033	.033	.034	.034	.035	41
42	.031	.031	.032	.033	.033	.034	.034	.035	.036	.036	.037	.037	42
43	.033	.034	.034	.035	.036	.036	.037	.038	.038	.039	.040	.040	43
44	.035	.036	.037	.037	.038	.039	.040	.040	.041	.042	.042	.043	44
45	.038	.038	.039	.040	.041	.041	.042	.043	.043	.044	.045	.046	45
46	.040	.041	.042	.042	.043	.044	.045	.045	.046	.047	.048	.049	46
47	.042	.043	.044	.045	.046	.046	.047	.048	.049	.050	.051	.051	47
48	.045	.046	.047	.048	.049	.050	.051	.052	.052	.053	.054	.054	48
49	.047	.048	.049	.050	.050	.051	.052	.053	.054	.055	.056	.057	49
50	—.049	—.050	—.051	—.052	—.053	—.054	—.055	—.056	—.057	—.058	—.059	—.060	50
51	.051	.052	.053	.054	.055	.056	.057	.058	.059	.060	.061	.062	51
52	.054	.055	.056	.057	.058	.059	.060	.061	.062	.063	.064	.065	52
53	.056	.057	.058	.059	.060	.061	.063	.064	.065	.066	.067	.068	53
54	.058	.059	.060	.062	.063	.064	.065	.066	.067	.068	.070	.071	54
55	.060	.062	.063	.064	.065	.066	.068	.069	.070	.071	.072	.073	55
56	.063	.064	.065	.066	.068	.069	.070	.071	.073	.074	.075	.076	56
57	.065	.066	.068	.069	.070	.071	.073	.074	.075	.076	.078	.079	57
58	.067	.069	.070	.071	.073	.074	.075	.077	.078	.079	.081	.082	58
59	.070	.071	.072	.074	.075	.076	.078	.079	.080	.082	.083	.085	59
60	—.072	—.073	—.075	—.076	—.077	—.079	—.080	—.082	—.083	—.085	—.086	—.087	60
61	.074	.075	.077	.078	.080	.081	.083	.084	.086	.087	.089	.090	61
62	.076	.078	.079	.081	.082	.084	.085	.087	.088	.090	.091	.093	62
63	.079	.080	.082	.083	.085	.086	.088	.089	.091	.093	.094	.096	63
64	.081	.082	.084	.086	.087	.089	.090	.092	.094	.095	.097	.098	64
65	.083	.085	.086	.088	.090	.091	.093	.095	.096	.098	.100	.101	65
66	.085	.087	.089	.090	.092	.094	.096	.097	.099	.101	.102	.104	66
67	.088	.089	.091	.093	.095	.096	.098	.100	.102	.103	.105	.107	67
68	.090	.092	.094	.095	.097	.099	.101	.102	.104	.106	.108	.109	68
69	.092	.094	.096	.098	.100	.101	.103	.105	.107	.109	.110	.112	69

TABLE I,

For reducing Observations of the Barometer to the Temperature of 32° Fahrenheit—(continued).

Temper- ature, Fahrenheit.	REDUCTION OF THE BAROMETER TO 32° FAHRENHEIT.												Temper- ature, Fahrenheit.	
	HEIGHT OF THE BAROMETER IN INCHES, AND CORRECTION IN DECIMALS OF AN INCH.													
	25°5	26°0	26°5	27°0	27°5	28°0	28°5	29°0	29°5	30°0	30°5	31°0		
70	—'095	—'096	—'098	—'100	—'102	—'104	—'106	—'108	—'109	—'111	—'113	—'115	70	
71	'097	'099	'101	'102	'104	'106	'108	'110	'112	'114	'116	'118	71	
72	'099	'101	'103	'105	'107	'109	'111	'113	'115	'117	'119	'120	72	
73	'101	'103	'105	'107	'109	'111	'113	'115	'117	'119	'121	'123	73	
74	'104	'106	'108	'110	'112	'114	'116	'118	'120	'122	'124	'126	74	
75	'106	'108	'110	'112	'114	'116	'118	'120	'122	'125	'127	'129	75	
76	'108	'110	'112	'114	'117	'119	'121	'123	'125	'127	'129	'131	76	
77	'110	'112	'115	'117	'119	'121	'123	'126	'128	'130	'132	'134	77	
78	'113	'115	'117	'119	'122	'124	'126	'128	'130	'133	'135	'137	78	
79	'115	'117	'119	'122	'124	'126	'128	'131	'133	'135	'137	'140	79	
80	—'117	—'119	—'122	—'124	—'126	—'129	—'131	—'133	—'136	—'138	—'140	—'143	80	
81	'119	'122	'124	'126	'129	'131	'134	'136	'138	'141	'143	'145	81	
82	'122	'124	'126	'129	'131	'134	'136	'138	'141	'143	'146	'148	82	
83	'124	'126	'129	'131	'134	'136	'139	'141	'143	'146	'148	'151	83	
84	'126	'129	'131	'134	'136	'139	'141	'144	'146	'149	'151	'154	84	
85	'128	'131	'133	'136	'139	'141	'144	'146	'149	'151	'154	'156	85	
86	'131	'133	'136	'138	'141	'144	'146	'149	'151	'154	'156	'159	86	
87	'133	'136	'138	'141	'143	'146	'149	'151	'154	'157	'159	'162	87	
88	'135	'138	'141	'143	'146	'149	'151	'154	'157	'159	'162	'165	88	
89	'137	'140	'143	'145	'148	'151	'154	'156	'159	'162	'165	'167	89	
90	—'140	—'142	—'145	—'148	—'151	—'153	—'156	—'159	—'162	—'164	—'167	—'170	90	
91	'142	'145	'148	'150	'153	'156	'159	'162	'165	'167	'170	'173	91	
92	'144	'147	'150	'153	'156	'158	'161	'164	'167	'170	'172	'175	92	
93	'147	'149	'152	'155	'158	'161	'164	'167	'170	'172	'175	'178	93	
94	'149	'152	'155	'157	'161	'163	'166	'169	'172	'175	'177	'180	94	
95	'151	'154	'157	'160	'163	'166	'169	'172	'175	'178	'180	'183	95	
96	'153	'156	'159	'162	'165	'168	'171	'174	'178	'181	'183	'186	96	
97	'156	'159	'162	'165	'168	'171	'174	'177	'180	'183	'186	'189	97	
98	'158	'161	'164	'167	'170	'173	'176	'179	'183	'186	'188	'191	98	
99	'160	'163	'166	'169	'173	'176	'179	'182	'185	'188	'191	'194	99	
100	—'162	—'166	—'169	—'172	—'175	—'178	—'181	—'185	'188	—'191	—'194	—'197	100	
101	'165	'168	'171	'174	'178	'181	'184	'187	'190	'194	'197	'200	101	
102	'167	'170	'173	'177	'180	'183	'186	'190	'193	'196	'200	'203	102	
103	'169	'172	'176	'179	'182	'186	'189	'192	'196	'199	'202	'206	103	
104	'171	'175	'178	'181	'185	'188	'192	'195	'198	'202	'205	'208	104	
105	'174	'177	'180	'184	'187	'191	'194	'197	'201	'204	'208	'211	105	
106	'176	'179	'183	'186	'190	'193	'197	'200	'203	'207	'210	'214	106	
107	'178	'182	'185	'189	'192	'196	'199	'203	'206	'210	'213	'217	107	
108	'180	'184	'187	'191	'195	'198	'202	'205	'209	'212	'216	'219	108	
109	'183	'186	'190	'193	'197	'201	'204	'208	'211	'215	'218	'222	109	
110	'185	'189	'192	'196	'199	'203	'207	'210	'214	'218	'221	'225	110	

This table has been extended so as to include ranges of temperature from — 10° to 0°, and from 100° to 110° Fahrenheit and for inches below 20, by means of the formula (t being the reading of the barometer and t the temperature):—

$$\text{Reduction} = \frac{0'0001001 (t - 32) - 0'00001043 (t - 62)}{1 + 0'0001001 (t - 32)}$$

which is the formula used by Schumacher in the construction of the original table. See *Sammlung von Hälften*, p. 187, New Ed. Altona, 1845.

TABLE II,

For reducing Observations of the Barometer to sea-level, correction additive.

Barometer reading at sea-level, 30 inches.

Height in feet.	TEMPERATURE OF EXTERNAL AIR—DEGREES, FAHRENHEIT.														Diff. for 1 inch.
	—20°	—10°	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°		
10	.012	.013	.012	.012	.012	.012	.011	.011	.011	.011	.010	.010	.010	.010	.000
20	.020	.025	.025	.024	.023	.023	.023	.022	.022	.021	.021	.020	.020	.020	.001
30	.038	.038	.037	.036	.035	.034	.034	.033	.032	.032	.031	.030	.030	.030	.001
40	.052	.050	.049	.048	.047	.046	.045	.044	.043	.042	.041	.040	.040	.040	.001
50	.065	.063	.061	.060	.059	.058	.056	.055	.054	.053	.052	.051	.050	.050	.002
60	.077	.076	.074	.072	.070	.069	.068	.066	.065	.063	.062	.061	.059	.059	.002
70	.090	.088	.086	.084	.082	.081	.078	.077	.076	.074	.072	.071	.069	.069	.003
80	.103	.101	.098	.096	.094	.092	.090	.088	.086	.084	.082	.081	.079	.079	.003
90	.116	.113	.111	.108	.105	.104	.101	.099	.097	.095	.093	.091	.089	.089	.003
100	.129	.126	.123	.120	.117	.115	.112	.110	.108	.105	.103	.101	.099	.099	.004
110	.142	.139	.135	.132	.129	.126	.123	.121	.119	.116	.113	.111	.109	.109	.004
120	.155	.151	.148	.144	.140	.138	.134	.132	.129	.126	.124	.121	.119	.119	.004
130	.168	.164	.160	.156	.152	.149	.146	.143	.140	.137	.134	.131	.129	.129	.005
140	.181	.176	.172	.168	.164	.161	.157	.154	.151	.147	.144	.141	.139	.139	.005
150	.194	.189	.185	.180	.176	.172	.168	.165	.162	.158	.155	.152	.149	.149	.006
160	.206	.201	.197	.192	.187	.183	.179	.176	.172	.168	.165	.162	.158	.158	.006
170	.219	.214	.209	.204	.199	.195	.190	.187	.183	.179	.175	.172	.168	.168	.006
180	.232	.227	.222	.216	.211	.206	.202	.198	.194	.189	.185	.182	.178	.178	.007
190	.245	.239	.234	.228	.222	.218	.213	.209	.204	.200	.196	.192	.188	.188	.007
200	.258	.252	.246	.240	.234	.229	.224	.220	.215	.210	.206	.202	.198	.198	.007
210	.271	.264	.258	.252	.246	.240	.235	.231	.226	.221	.216	.212	.208	.208	.008
220	.284	.277	.270	.264	.257	.252	.246	.242	.236	.231	.227	.223	.218	.218	.008
230	.296	.289	.283	.276	.269	.263	.257	.253	.247	.242	.237	.233	.228	.228	.008
240	.309	.302	.295	.288	.281	.275	.269	.264	.258	.253	.248	.243	.238	.238	.009
250	.322	.314	.307	.300	.293	.286	.280	.275	.269	.263	.258	.253	.248	.248	.009

TABLE II,

For reducing Observations of the Barometer to sea-level, correction additive—(contd.).

Barometer reading at sea-level, 30 inches.

Height in feet	TEMPERATURE OF EXTERNAL AIR—DEGREES, FAHRENHEIT.													
	—20°	—10°	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	Diff for 1 inch.
260	·335	·327	·319	·311	·304	·297	·291	·285	·279	·273	·268	·263	·257	·009
270	·348	·339	·331	·323	·316	·309	·302	·296	·290	·284	·278	·273	·267	·010
280	·360	·352	·344	·335	·328	·320	·314	·307	·301	·294	·288	·283	·277	·010
290	·373	·364	·356	·347	·339	·332	·325	·318	·311	·305	·299	·293	·287	·010
300	·386	·377	·368	·359	·351	·343	·336	·329	·323	·315	·309	·303	·297	·011
310	·399	·389	·380	·371	·363	·354	·347	·340	·333	·326	·319	·313	·307	·011
320	·412	·402	·392	·383	·374	·366	·358	·351	·343	·336	·329	·323	·317	·012
330	·424	·414	·404	·395	·386	·377	·369	·362	·354	·347	·340	·333	·326	·012
340	·437	·427	·416	·407	·397	·389	·380	·373	·365	·357	·350	·343	·336	·012
350	·450	·439	·429	·419	·409	·400	·392	·384	·376	·368	·360	·353	·346	·013
360	·463	·451	·441	·430	·421	·411	·403	·394	·386	·378	·370	·363	·356	·013
370	·476	·464	·453	·442	·432	·423	·414	·405	·397	·389	·380	·373	·366	·013
380	·488	·476	·465	·454	·444	·434	·425	·416	·408	·399	·391	·383	·375	·014
390	·501	·489	·477	·466	·455	·446	·436	·427	·418	·410	·401	·393	·385	·014
400	·514	·501	·489	178	·467	·457	·447	·438	429	·420	·411	·403	·395	·014
410	·527	513	·501	·490	·479	·468	·458	·449	·440	·430	·421	413	·405	·015
420	·539	·526	·513	·502	·490	·480	·469	·460	·450	·441	·431	423	·415	·015
430	·552	·533	·525	·513	·502	·491	·480	·470	·461	·451	·442	·433	·425	·015
440	·565	·551	·537	·525	513	·502	·491	·481	·471	·462	·452	·443	·434	·016
450	·578	·563	·550	·537	·525	·513	·503	·492	·482	·472	·462	·453	·444	·016
460	·590	·575	·562	·549	·537	·525	·514	·503	·493	·482	·472	463	·454	·017
470	·603	·588	·574	·561	·548	·536	·525	·514	·503	·493	·482	·473	·464	·017
480	·616	·600	·586	·572	·560	·547	·536	524	·514	·503	·493	·483	·474	·018
490	·629	·613	·598	·584	·571	·559	·547	·535	·524	·514	·503	·493	·483	·018
500	·641	·625	·610	·596	·583	·570	·558	·546	·535	·524	·513	·503	·493	·018

TABLE III.

Table of the Elastic Force of Vapour in inches of mercury in the latitude of 22° at sea-level, reduced from the table computed by the Reverend Robert Dixon from Regnault's original data.

°	Inch.	•	Inch.	°	Inch.										
0°	0410	6°	0578	12°	0755	18°	0985	24°	1282	30°	1665	36°	2126	42°	2680
2°	0414	2°	0553	2°	0762	2°	0994	2°	1293	2°	1679	2°	2143	2°	2700
4°	0418	4°	0539	4°	0769	4°	1003	4°	1304	4°	1694	4°	2160	4°	2721
6°	0452	6°	0591	6°	0776	6°	1012	6°	1316	6°	1709	6°	2177	6°	2742
8°	0456	8°	0599	8°	0783	8°	1021	8°	1327	8°	1723	8°	2194	8°	2762
10°	0460	7°	0605	13°	0790	19°	1030	25°	1339	31°	1738	37°	2210	43°	2783
12°	0465	2°	0610	2°	0797	2°	1039	2°	1351	2°	1754	2°	2227	2°	2804
14°	0469	4°	0616	4°	0804	4°	1048	4°	1363	4°	1769	4°	2244	4°	2825
16°	0473	6°	0621	6°	0811	6°	1057	6°	1374	6°	1784	6°	2262	6°	2846
18°	0477	8°	0627	8°	0818	8°	1066	8°	1386	8°	1800	8°	2280	8°	2868
20°	0482	8°	0632	14°	0825	20°	1076	26°	1399	32°	1815	38°	2298	44°	2890
22°	0486	2°	0638	2°	0833	2°	1085	2°	1411	2°	1830	2°	2316	2°	2912
24°	0491	4°	0644	1°	0840	4°	1095	4°	1423	4°	1844	4°	2331	4°	2934
26°	0495	6°	0649	6°	0848	6°	1104	6°	1435	6°	1859	6°	2352	6°	2957
28°	0500	8°	0655	8°	0855	8°	1111	8°	1118	8°	1874	8°	2370	8°	2980
30°	0504	9°	0661	15°	0863	21°	1121	27°	1161	33°	1888	39°	2388	45°	3003
32°	0509	2°	0667	2°	0870	2°	1134	2°	1473	2°	1903	2°	2406	2°	3026
34°	0513	4°	0673	4°	0878	4°	1141	4°	1486	4°	1918	4°	2425	4°	3049
36°	0518	6°	0679	6°	0886	6°	1154	6°	1499	6°	1934	6°	2444	6°	3072
38°	0523	8°	0685	8°	0891	8°	1164	8°	1512	8°	1949	8°	2463	8°	3094
40°	0527	10°	0691	16°	0902	22°	1174	28°	1526	34°	1965	40°	2482	46°	3117
42°	0532	2°	0697	2°	0910	2°	1184	2°	1539	2°	1980	2°	2501	2°	3140
44°	0537	4°	0701	4°	0919	4°	1195	4°	1552	4°	1996	4°	2520	4°	3163
46°	0542	6°	0710	6°	0927	6°	1205	6°	1566	6°	2011	6°	2539	6°	3187
48°	0547	8°	0716	8°	0935	8°	1216	8°	1579	8°	2027	8°	2559	8°	3211
50°	0553	11°	0723	17°	0943	23°	1226	29°	1593	35°	2044	41°	2578	47°	3235
52°	0558	2°	0729	2°	0951	2°	1237	2°	1608	2°	2060	2°	2598	2°	3260
54°	0563	4°	0736	4°	0960	4°	1249	4°	1622	4°	2076	4°	2619	4°	3285
56°	0568	6°	0742	6°	0969	6°	1260	6°	1636	6°	2092	6°	2639	6°	3310
58°	0573	8°	0749	8°	0977	8°	1271	8°	1650	8°	2109	8°	2659	8°	3335

TABLE III.

Table of the Elastic Force of Vapour in inches of mercury in the latitude of 22° at sea-level, reduced from the table computed by the Reverend Robert Dixon from Regnault's original data—(continued).

°	Inch.														
48°	3359	54°	4187	60°	5193	66°	6408	72°	7863	78°	9604	84°	11076	90°	14128
°2	3381	°2	4217	°2	5230	°2	6451	°2	7918	°2	9667	°2	11752	°2	14218
°4	3409	°4	4249	°4	5267	°4	6495	°4	7972	°4	9731	°4	11828	°4	14307
°6	3435	°6	4280	°6	5304	°6	6540	°6	8025	°6	9795	°6	11904	°6	14397
°8	3460	°8	4311	°8	5342	°8	6586	°8	8078	°8	9860	°8	11980	°8	14488
49°	3486	55°	4341	61°	5379	67°	6631	73°	8132	79°	9926	85°	12057	91°	14579
°2	3512	°2	4372	°2	5418	°2	6676	°2	8187	°2	9992	°2	12135	°2	14670
°4	3539	°4	4403	°4	5456	°4	6722	°4	8242	°4	10058	°4	12213	°4	14762
°6	3564	°6	4435	°6	5495	°6	6769	°6	8297	°6	10124	°6	12291	°6	14851
°8	3591	°8	4467	°8	5533	°8	6816	°8	8353	°8	10190	°8	12369	°8	14947
50°	3617	56°	4501	62°	5572	68°	6863	74°	8410	80°	10256	86°	12449	92°	15011
°2	3644	°2	4534	°2	5612	°2	6909	°2	8466	°2	10323	°2	12529	°2	15135
°4	3671	°4	4567	°4	5652	°4	6956	°4	8523	°4	10391	°4	12609	°4	15229
°6	3698	°6	4600	°6	5692	°6	7001	°6	8581	°6	10459	°6	12690	°6	15324
°8	3725	°8	4633	°8	5731	°8	7052	°8	8638	°8	10527	°8	12771	°8	15419
51°	3753	57°	4666	63°	5771	69°	7101	75°	8696	81°	10596	87°	12852	93°	15515
°2	3780	°2	4700	°2	5812	°2	7150	°2	8754	°2	10664	°2	12931	°2	15612
°4	3808	°4	4733	°4	5853	°4	7199	°4	8812	°4	10733	°4	13016	°4	15709
°6	3837	°6	4767	°6	5891	°6	7249	°6	8872	°6	10803	°6	13099	°6	15806
°8	3865	°8	4801	°8	5935	°8	7298	°8	8931	°8	10871	°8	13182	°8	15904
52°	3893	58°	4836	64°	5976	70°	7348	76°	8990	82°	10946	88°	13266	94°	16003
°2	3921	°2	4870	°2	6018	°2	7398	°2	9049	°2	11018	°2	13350	°2	16102
°4	3950	°4	4905	°4	6060	°4	7448	°4	9109	°4	11090	°4	13434	°4	16202
°6	3979	°6	4941	°6	6102	°6	7499	°6	9169	°6	11162	°6	13519	°6	16303
°8	4008	°8	4976	°8	6145	°8	7550	°8	9230	°8	11234	°8	13605	°8	16403
53°	4037	59°	5011	65°	6188	71°	7602	77°	9292	83°	11306	89°	13691	95°	16504
°2	4067	°2	5047	°2	6231	°2	7654	°2	9354	°2	11379	°2	13778	°2	16606
°4	4096	°4	5083	°4	6274	°4	7706	°4	9417	°4	11453	°4	13865	°4	16709
°6	4126	°6	5119	°6	6318	°6	7759	°6	9479	°6	11527	°6	13952	°6	16812
°8	4156	°8	5156	°8	6362	°8	7811	°8	9542	°8	11601	°8	14040	°8	16915

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of 22°.

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.													
	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
0	.014	.038	.033	.027	.021	.015	.010	.004	-	-	-	-	-	-
1	.016	.040	.035	.029	.023	.017	.012	.006	-	-	-	-	-	-
2	.048	.012	.037	.031	.025	.019	.014	.008	.002	-	-	-	-	-
3	.050	.015	.039	.033	.027	.022	.016	.010	.004	-	-	-	-	-
4	.053	.017	.041	.035	.030	.024	.018	.012	.007	.001	-	-	-	-
5	.055	.050	.044	.038	.032	.026	.021	.015	.009	.003	-	-	-	-
6	.058	.052	.046	.041	.035	.029	.023	.017	.012	.006	-	-	-	-
7	.061	.055	.049	.043	.037	.032	.026	.020	.014	.009	.003	-	-	-
8	.063	.057	.052	.046	.040	.034	.029	.023	.017	.011	.005	-	-	-
9	.066	.060	.055	.049	.043	.037	.031	.026	.020	.014	.008	.002	-	-
10	.069	.063	.058	.052	.046	.040	.034	.029	.023	.017	.011	.005	-	-
11	.072	.067	.061	.055	.049	.043	.038	.032	.026	.020	.014	.009	.003	-
12	.076	.070	.064	.058	.052	.047	.041	.035	.029	.023	.018	.012	.006	-
13	.079	.073	.067	.062	.056	.050	.044	.038	.033	.027	.021	.015	.009	.004
14	.083	.077	.071	.065	.059	.053	.048	.042	.036	.030	.021	.015	.013	.007
15	.086	.081	.075	.069	.063	.057	.051	.046	.040	.034	.028	.022	.017	.011
16	.090	.084	.079	.073	.067	.061	.055	.049	.044	.038	.032	.026	.020	.015
17	.094	.089	.083	.077	.071	.065	.059	.054	.048	.042	.036	.030	.024	.019
18	.099	.093	.087	.081	.075	.069	.064	.058	.052	.046	.040	.034	.029	.023
19	.103	.097	.091	.086	.080	.074	.068	.062	.056	.051	.045	.039	.032	.027
20	.108	.102	.096	.090	.084	.078	.073	.067	.061	.055	.049	.043	.038	.032
21	.112	.107	.101	.095	.089	.083	.077	.072	.066	.060	.054	.048	.042	.036
22	.117	.112	.106	.100	.094	.088	.082	.076	.071	.065	.059	.053	.047	.041
23	.123	.117	.111	.105	.099	.093	.088	.082	.076	.070	.064	.058	.052	.047
24	.128	.122	.117	.111	.105	.099	.093	.087	.081	.076	.070	.064	.058	.052
25	.134	.128	.122	.116	.110	.105	.099	.093	.087	.081	.075	.069	.064	.058
26	.140	.134	.128	.122	.116	.111	.105	.099	.093	.087	.081	.075	.070	.064
27	.146	.140	.134	.129	.123	.117	.111	.105	.099	.093	.087	.082	.076	.070
28	.153	.147	.141	.135	.129	.123	.117	.111	.106	.100	.094	.088	.082	.076
29	.159	.153	.148	.142	.136	.130	.124	.118	.112	.106	.100	.095	.089	.083

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of 22°—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.													
	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5
0														
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14	'001													
15	'005													
16	'009	'003												
17	'013	'007	'001											
18	'017	'011	'005											
19	'021	'015	'010	'004										
20	'026	'020	'014	'008	'003									
21	'031	'025	'019	'013	'007	'001								
22	'036	'030	'024	'018	'012	'006								
23	'041	'035	'029	'023	'017	'011	'006							
24	'046	'040	'034	'029	'023	'017	'011	'005						
25	'052	'046	'040	'034	'028	'023	'017	'011	'005					
26	'058	'052	'046	'040	'034	'028	'023	'017	'011	'005				
27	'064	'058	'052	'046	'040	'035	'029	'023	'017	'011	'005			
28	'070	'064	'059	'053	'047	'041	'035	'029	'023	'017	'012	'006		
29	'077	'071	'065	'059	'053	'048	'042	'036	'030	'024	'018	'012	'006	

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches in the latitude of 22°—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																		
	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	
30	·167	·161	·155	·149	·143	·137	·131	·125	·119	·114	·108	·102	·96	·90	·84	·78	·72	·66	
31	·174	·163	·162	·156	·150	·144	·138	·133	·127	·121	·115	·109	·103	·97	·91	·85	·80	·74	
32	·182	·175	·169	·162	·156	·149	·143	·136	·130	·123	·117	·110	·104	·97	·91	·84	·78	·71	
33	·189	·182	·176	·169	·163	·156	·150	·143	·137	·130	·124	·117	·111	·104	·98	·91	·85	·79	
34	·197	·190	·184	·177	·171	·164	·158	·151	·145	·138	·132	·125	·119	·112	·105	·99	·92	·86	
35	·204	·198	·191	·185	·178	·172	·165	·159	·152	·146	·139	·133	·126	·120	·113	·107	·100	·94	
36	·213	·206	·200	·193	·187	·180	·174	·167	·161	·154	·147	·141	·134	·128	·121	·115	·108	·102	
37	·221	·215	·208	·201	·195	·188	·182	·175	·169	·162	·156	·149	·143	·136	·130	·123	·117	·110	
38	·230	·223	·217	·210	·204	·197	·191	·184	·178	·171	·165	·158	·152	·145	·138	·132	·125	·119	
39	·239	·232	·226	·219	·213	·206	·200	·193	·187	·180	·174	·167	·160	·154	·147	·141	·134	·128	
40	·248	·242	·235	·229	·222	·216	·209	·202	·196	·189	·183	·176	·170	·163	·157	·150	·144	·137	
41	·258	·251	·245	·238	·232	·225	·219	·212	·205	·199	·192	·186	·179	·173	·166	·160	·153	·147	
42	·268	·261	·255	·248	·242	·235	·229	·222	·216	·209	·203	·196	·189	·183	·176	·170	·163	·157	
43	·278	·272	·265	·259	·252	·246	·239	·232	·226	·219	·213	·206	·200	·193	·187	·180	·173	·167	
44	·289	·282	·276	·269	·263	·256	·250	·243	·237	·230	·223	·217	·210	·204	·197	·191	·184	·177	
45	·300	·294	·287	·281	·274	·269	·261	·254	·243	·231	·235	·228	·222	·215	·208	·202	·195	·189	
46	·312	·305	·299	·292	·285	·279	·272	·266	·259	·253	·246	·239	·233	·226	·220	·213	·207	·200	
47	·324	·317	·310	·304	·297	·291	·284	·277	·271	·264	·258	·251	·245	·238	·231	·225	·218	·212	
48	·336	·329	·323	·316	·310	·303	·296	·290	·283	·277	·270	·263	·257	·250	·244	·237	·231	·224	
49	·349	·342	·335	·329	·322	·316	·309	·302	·296	·289	·283	·276	·270	·263	·256	·250	·243	·237	
50	·362	·355	·349	·342	·335	·329	·322	·316	·309	·302	·296	·289	·283	·276	·269	·263	·256	·250	
51	·375	·369	·362	·356	·349	·342	·336	·329	·323	·316	·309	·303	·296	·289	·283	·276	·270	·263	
52	·389	·383	·376	·370	·363	·356	·350	·343	·336	·330	·323	·317	·310	·303	·297	·290	·284	·277	
53	·404	·397	·391	·384	·377	·371	·364	·357	·351	·344	·338	·331	·324	·318	·311	·304	·298	·291	
54	·419	·412	·406	·399	·392	·386	·379	·372	·366	·359	·353	·346	·339	·333	·326	·319	·313	·306	
55	·434	·428	·421	·414	·408	·401	·394	·388	·381	·374	·368	·361	·355	·348	·341	·335	·328	·321	
56	·450	·444	·437	·430	·424	·417	·410	·404	·397	·390	·384	·377	·371	·364	·357	·351	·344	·337	
57	·467	·460	·453	·447	·440	·433	·427	·420	·414	·407	·400	·394	·387	·380	·374	·367	·360	·354	
58	·484	·477	·470	·464	·457	·450	·444	·437	·430	·424	·417	·411	·404	·397	·391	·384	·377	·371	
59	·501	·494	·488	·481	·475	·468	·461	·455	·448	·441	·435	·428	·421	·415	·408	·401	·395	·388	

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of 22°—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																	
	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5
30	.061	.055	.049	.043	.037	.031	.025	.019	.013	.008	.002							
31	.068	.062	.056	.050	.044	.038	.032	.026	.021	.015	.009	.003						
32	.065	.068	.052	.045	.039	.032	.026	.019	.013	.006								
33	.072	.065	.059	.052	.046	.039	.033	.026	.020	.013	.007							
34	.079	.073	.066	.060	.053	.047	.040	.034	.027	.021	.014	.008	.001					
35	.087	.081	.074	.068	.061	.055	.048	.042	.035	.029	.022	.016	.009	.003				
36	.095	.089	.082	.076	.069	.063	.056	.050	.043	.037	.030	.024	.017	.011	.004			
37	.104	.097	.091	.084	.078	.071	.065	.058	.051	.045	.038	.032	.025	.019	.012	.006		
38	.112	.106	.099	.093	.086	.080	.073	.067	.061	.054	.047	.041	.031	.027	.021	.014	.008	.001
39	.121	.115	.108	.102	.095	.089	.082	.076	.069	.062	.056	.049	.043	.036	.030	.023	.017	.010
40	.131	.124	.117	.111	.104	.098	.092	.085	.078	.072	.065	.059	.052	.046	.039	.032	.026	.019
41	.140	.133	.127	.120	.114	.107	.101	.094	.088	.081	.075	.068	.061	.055	.048	.042	.035	.029
42	.150	.144	.137	.130	.124	.117	.111	.104	.098	.091	.085	.078	.072	.065	.058	.052	.045	.039
43	.160	.154	.147	.141	.134	.128	.121	.114	.108	.101	.095	.088	.082	.075	.069	.062	.055	.049
44	.171	.164	.158	.151	.145	.138	.132	.125	.118	.112	.105	.099	.092	.086	.079	.072	.066	.059
45	.182	.176	.169	.162	.156	.149	.143	.136	.130	.123	.116	.110	.103	.097	.090	.084	.077	.070
46	.193	.187	.180	.174	.167	.161	.154	.147	.141	.134	.128	.121	.114	.108	.101	.095	.088	.082
47	.205	.198	.192	.185	.179	.172	.166	.159	.152	.146	.139	.133	.126	.120	.113	.106	.100	.093
48	.217	.211	.204	.198	.191	.184	.179	.171	.165	.158	.151	.145	.138	.132	.125	.119	.112	.105
49	.230	.223	.217	.210	.204	.197	.190	.184	.177	.171	.164	.157	.151	.144	.138	.131	.124	.118
50	.243	.236	.230	.223	.217	.210	.203	.197	.190	.184	.177	.170	.164	.157	.151	.144	.137	.131
51	.256	.250	.243	.237	.230	.223	.217	.210	.204	.197	.190	.184	.177	.171	.164	.157	.151	.144
52	.270	.264	.257	.250	.244	.237	.231	.224	.217	.211	.204	.198	.191	.184	.178	.171	.165	.158
53	.285	.278	.271	.264	.258	.252	.245	.238	.232	.225	.218	.212	.205	.199	.192	.185	.179	.172
54	.300	.293	.286	.280	.273	.266	.260	.253	.247	.240	.233	.227	.220	.213	.207	.200	.194	.187
55	.315	.308	.302	.295	.288	.282	.275	.268	.262	.255	.248	.242	.235	.229	.223	.215	.209	.202
56	.331	.324	.317	.311	.304	.298	.291	.284	.278	.271	.264	.258	.261	.254	.238	.231	.224	.218
57	.347	.340	.334	.327	.321	.314	.307	.301	.294	.287	.281	.274	.267	.261	.254	.247	.241	.234
58	.364	.357	.351	.344	.337	.331	.324	.317	.311	.304	.297	.291	.284	.278	.271	.264	.258	.251
59	.381	.375	.368	.361	.355	.349	.341	.335	.328	.321	.315	.308	.301	.295	.288	.282	.275	.268

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of 22°—(continued).

Wet bulb t' .	VALUES OF $\delta - \delta'$ IN DEGREES, FAHRENHEIT.																	
	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	25.5	26	26.5
30	•																	
31																		
32																		
33																		
34																		
35																		
36																		
37																		
38																		
39	.001																	
40	.013	.006																
41	.022	.016	.009	.003														
42	.032	.026	.019	.013	.006													
43	.042	.036	.029	.023	.016	.009	.003											
44	.053	.046	.040	.033	.027	.020	.013	.007										
45	.061	.057	.051	.044	.038	.031	.024	.018	.011	.005								
46	.075	.068	.062	.055	.049	.042	.036	.029	.022	.016	.009	.003						
47	.087	.080	.073	.067	.060	.051	.047	.041	.034	.027	.021	.014	.008					
48	.099	.092	.086	.079	.072	.066	.059	.053	.046	.039	.033	.026	.020	.013	.007			
49	.111	.105	.098	.091	.085	.078	.072	.065	.059	.052	.045	.039	.032	.026	.019	.012	.006	
50	.124	.118	.111	.104	.098	.091	.085	.078	.071	.065	.058	.052	.045	.038	.032	.025	.019	.012
51	.138	.131	.124	.118	.111	.101	.098	.091	.085	.078	.071	.065	.058	.052	.045	.038	.032	.025
52	.151	.145	.138	.131	.125	.118	.112	.105	.098	.092	.085	.079	.072	.065	.059	.052	.046	.039
53	.165	.159	.152	.146	.139	.132	.126	.119	.113	.106	.099	.093	.086	.079	.073	.066	.060	.053
54	.180	.174	.167	.160	.153	.147	.141	.134	.127	.121	.114	.107	.101	.094	.088	.081	.074	.068
55	.195	.189	.182	.176	.169	.162	.156	.149	.142	.136	.129	.123	.116	.109	.103	.096	.089	.083
56	.211	.205	.198	.191	.165	.178	.171	.165	.158	.151	.145	.138	.132	.125	.118	.112	.105	.098
57	.228	.221	.214	.208	.201	.194	.188	.181	.174	.168	.161	.154	.148	.141	.135	.128	.121	.115
58	.244	.238	.231	.224	.218	.211	.204	.198	.191	.184	.178	.171	.164	.158	.151	.145	.138	.131
59	.262	.255	.248	.242	.235	.228	.222	.215	.208	.202	.195	.188	.182	.175	.168	.162	.155	.148

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of 22°—(continued).

Wet bulb t' .	VALUES OF $t - t'$ IN DEGREES, FAHRENHEIT.																		
	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	
60	·519	·513	·506	·499	·493	·486	·479	·473	·466	·459	·453	·446	·439	·433	·426	·419	·413	·406	
61	·538	·531	·525	·518	·511	·505	·498	·491	·485	·478	·471	·465	·458	·451	·445	·438	·431	·425	
62	·557	·551	·544	·537	·531	·524	·517	·511	·504	·497	·491	·484	·477	·470	·464	·457	·450	·444	
63	·577	·570	·564	·557	·550	·544	·537	·530	·524	·517	·510	·504	·497	·490	·484	·477	·470	·464	
64	·598	·591	·584	·578	·571	·564	·558	·551	·544	·537	·531	·524	·517	·511	·504	·497	·491	·484	
65	·619	·612	·605	·599	·592	·585	·579	·572	·563	·559	·552	·545	·539	·532	·525	·518	·512	·505	
66	·611	·634	·627	·621	·614	·607	·600	·594	·587	·580	·574	·567	·560	·554	·547	·540	·533	·527	
67	·603	·656	·650	·643	·636	·630	·623	·616	·610	·603	·596	·589	·583	·576	·569	·563	·556	·549	
68	·656	·680	·673	·666	·660	·653	·646	·639	·633	·626	·619	·613	·606	·599	·592	·586	·579	·572	
69	·710	·703	·697	·690	·683	·677	·670	·663	·656	·650	·643	·636	·630	·623	·616	·609	·603	·596	
70	·735	·728	·721	·715	·708	·701	·695	·688	·681	·674	·668	·661	·654	·647	·641	·634	·627	·621	
71	·760	·751	·747	·740	·733	·727	·720	·713	·706	·700	·693	·686	·679	·673	·666	·659	·653	·646	
72	·788	·780	·773	·766	·759	·753	·746	·739	·732	·726	·719	·712	·706	·699	·692	·685	·679	·672	
73	·813	·807	·800	·793	·786	·780	·773	·766	·759	·753	·746	·739	·732	·726	·719	·712	·705	·698	
74	·841	·834	·828	·821	·814	·807	·801	·794	·787	·780	·774	·767	·760	·753	·747	·740	·733	·726	
75	·870	·863	·856	·849	·843	·836	·829	·822	·816	·809	·802	·795	·789	·782	·775	·768	·762	·755	
76	·899	·893	·886	·879	·872	·865	·858	·852	·845	·838	·831	·825	·818	·811	·804	·798	·791	·784	
77	·929	·922	·916	·909	·902	·895	·889	·882	·875	·868	·862	·855	·848	·841	·834	·828	·821	·814	
78	·960	·954	·947	·940	·933	·927	·920	·913	·906	·899	·893	·886	·879	·872	·866	·859	·853	·845	
79	·993	·986	·979	·972	·966	·959	·952	·945	·938	·932	·925	·918	·911	·904	·898	·891	·884	·877	
80	1·026	1·019	1·012	1·005	·998	·992	·985	·978	·971	·965	·958	·951	·944	·937	·931	·924	·917	·910	
81	1·060	1·053	1·046	1·039	1·032	1·026	1·019	1·012	1·005	·998	·992	·985	·978	·971	·965	·958	·951	·944	
82	1·095	1·088	1·081	1·074	1·067	1·061	1·054	1·047	1·040	1·033	1·027	1·020	1·013	1·006	·999	·993	·986	·979	
83	1·131	1·124	1·117	1·110	1·103	1·097	1·090	1·083	1·076	1·069	1·063	1·056	1·049	1·042	1·035	1·029	1·022	1·015	
84	1·168	1·161	1·154	1·147	1·140	1·134	1·127	1·120	1·113	1·106	1·100	1·093	1·086	1·079	1·072	1·065	1·059	1·052	
85	1·206	1·199	1·192	1·185	1·179	1·172	1·165	1·158	1·151	1·144	1·138	1·131	1·124	1·117	1·110	1·103	1·097	1·090	
86	1·245	1·238	1·231	1·221	1·218	1·211	1·204	1·197	1·190	1·183	1·177	1·170	1·163	1·156	1·149	1·142	1·136	1·129	
87	1·285	1·278	1·272	1·265	1·258	1·251	1·244	1·237	1·231	1·224	1·217	1·210	1·203	1·196	1·190	1·183	1·176	1·169	
88	1·327	1·320	1·313	1·306	1·299	1·292	1·286	1·279	1·273	1·265	1·258	1·251	1·245	1·238	1·231	1·224	1·217	1·210	
89	1·369	1·362	1·355	1·349	1·342	1·335	1·328	1·321	1·314	1·308	1·301	1·294	1·287	1·280	1·273	1·266	1·260	1·253	

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of 22°—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																		
	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	
60	.399	.393	.386	.379	.373	.366	.359	.353	.346	.339	.333	.326	.319	.313	.306	.300	.293	.286	
61	.418	.411	.405	.398	.391	.385	.378	.371	.365	.358	.351	.345	.338	.331	.325	.318	.311	.305	
62	.437	.430	.424	.417	.410	.404	.397	.390	.384	.377	.370	.364	.357	.350	.344	.337	.330	.324	
63	.457	.450	.444	.437	.430	.424	.417	.410	.403	.397	.390	.383	.377	.370	.363	.357	.350	.343	
64	.477	.471	.464	.457	.451	.444	.437	.430	.424	.417	.410	.404	.397	.390	.384	.377	.370	.364	
65	.496	.492	.485	.478	.472	.465	.458	.452	.445	.438	.431	.425	.418	.411	.405	.398	.391	.385	
66	.520	.513	.507	.500	.493	.487	.480	.473	.466	.460	.453	.446	.440	.433	.426	.420	.413	.406	
67	.542	.536	.529	.522	.516	.509	.502	.496	.489	.482	.475	.469	.462	.455	.448	.442	.435	.428	
68	.566	.559	.552	.545	.539	.532	.525	.519	.512	.505	.498	.492	.485	.478	.472	.465	.458	.451	
69	.589	.583	.576	.569	.562	.556	.549	.542	.535	.529	.522	.515	.509	.502	.495	.488	.482	.475	
70	.614	.607	.600	.594	.587	.580	.573	.567	.560	.553	.547	.540	.533	.526	.520	.513	.506	.499	
71	.639	.632	.626	.619	.612	.605	.599	.592	.585	.579	.572	.565	.558	.552	.545	.538	.531	.525	
72	.665	.658	.652	.645	.638	.631	.625	.618	.611	.604	.598	.591	.584	.577	.571	.564	.557	.551	
73	.682	.685	.678	.672	.665	.658	.651	.645	.638	.631	.624	.618	.611	.604	.597	.591	.584	.577	
74	.720	.713	.706	.699	.693	.686	.679	.672	.666	.659	.652	.645	.639	.632	.625	.618	.612	.605	
75	.748	.741	.735	.728	.721	.714	.707	.701	.694	.687	.680	.674	.667	.660	.653	.647	.640	.633	
76	.777	.771	.764	.757	.750	.744	.737	.730	.723	.716	.710	.703	.696	.689	.683	.676	.669	.662	
77	.807	.801	.794	.787	.780	.774	.767	.760	.753	.746	.740	.733	.726	.719	.713	.706	.699	.692	
78	.838	.832	.825	.818	.811	.805	.798	.791	.784	.778	.771	.764	.757	.750	.744	.737	.730	.723	
79	.871	.864	.857	.850	.843	.837	.830	.823	.816	.810	.803	.796	.789	.782	.776	.769	.762	.755	
80	.903	.897	.890	.883	.876	.870	.863	.856	.849	.842	.836	.829	.822	.815	.808	.802	.795	.788	
81	.937	.931	.924	.917	.910	.903	.897	.890	.883	.876	.869	.863	.856	.849	.842	.835	.829	.822	
82	.972	.965	.959	.952	.945	.938	.931	.925	.918	.911	.904	.897	.891	.884	.877	.870	.863	.857	
83	1.008	1.001	.994	.988	.981	.974	.967	.960	.954	.947	.940	.933	.926	.920	.913	.906	.899	.892	
84	1.045	1.038	1.031	1.025	1.018	1.011	1.004	.997	.991	.984	.977	.970	.963	.956	.950	.943	.936	.929	
85	1.083	1.076	1.069	1.063	1.056	1.049	1.042	1.035	1.028	1.022	1.015	1.008	1.001	.994	.988	.981	.974	.967	
86	1.122	1.115	1.108	1.102	1.095	1.088	1.081	1.074	1.067	1.061	1.054	1.047	1.040	1.033	1.026	1.020	1.013	1.006	
87	1.162	1.155	1.149	1.142	1.135	1.128	1.121	1.114	1.108	1.101	1.094	1.087	1.080	1.073	1.067	1.060	1.053	1.046	
88	1.203	1.197	1.190	1.183	1.176	1.169	1.162	1.156	1.149	1.142	1.135	1.128	1.121	1.115	1.108	1.101	1.094	1.087	
89	1.246	1.239	1.233	1.226	1.219	1.212	1.205	1.198	1.191	1.184	1.177	1.171	1.164	1.157	1.150	1.143	1.136	1.129	

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of 22°—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																		
	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	25.5	26	26.5	
60	.280	.273	.266	.260	.253	.246	.240	.233	.226	.220	.213	.206	.200	.193	.186	.180	.173	.166	
61	.298	.291	.285	.278	.271	.265	.258	.251	.245	.238	.231	.225	.218	.211	.205	.198	.191	.185	
62	.317	.310	.304	.297	.290	.284	.277	.270	.264	.257	.250	.244	.237	.230	.224	.217	.210	.204	
63	.337	.330	.323	.317	.310	.303	.297	.290	.283	.277	.270	.263	.256	.250	.243	.236	.230	.223	
64	.357	.350	.344	.337	.330	.323	.317	.310	.303	.297	.290	.283	.277	.270	.263	.257	.250	.243	
65	.378	.371	.365	.358	.351	.344	.338	.331	.324	.318	.311	.304	.298	.291	.284	.278	.271	.264	
66	.399	.393	.386	.379	.373	.366	.359	.353	.346	.339	.332	.326	.319	.312	.306	.299	.292	.286	
67	.422	.415	.408	.412	.395	.388	.382	.375	.368	.361	.355	.348	.341	.335	.328	.321	.314	.308	
68	.445	.438	.431	.425	.418	.411	.404	.398	.391	.384	.378	.371	.364	.357	.351	.344	.337	.331	
69	.468	.462	.455	.448	.441	.435	.428	.421	.415	.408	.401	.394	.388	.381	.374	.368	.361	.354	
70	.488	.486	.479	.473	.466	.459	.452	.446	.439	.432	.426	.419	.412	.405	.399	.392	.385	.378	
71	.518	.511	.504	.498	.491	.484	.478	.471	.464	.457	.451	.444	.437	.430	.424	.417	.410	.404	
72	.544	.537	.530	.524	.517	.510	.503	.497	.490	.483	.476	.470	.463	.456	.449	.443	.436	.427	
73	.570	.564	.557	.550	.544	.537	.530	.523	.517	.510	.503	.496	.490	.483	.476	.469	.463	.456	
74	.598	.591	.585	.578	.571	.564	.558	.551	.544	.537	.531	.524	.517	.510	.504	.497	.490	.483	
75	.626	.620	.613	.606	.599	.593	.586	.579	.572	.566	.559	.552	.545	.539	.532	.525	.518	.512	
76	.656	.649	.642	.635	.629	.622	.615	.608	.601	.595	.588	.581	.574	.568	.561	.554	.547	.541	
77	.686	.679	.672	.665	.658	.652	.645	.638	.631	.625	.618	.611	.604	.598	.591	.584	.577	.570	
78	.717	.710	.703	.696	.689	.683	.676	.669	.662	.656	.649	.642	.635	.628	.622	.615	.608	.601	
79	.748	.742	.735	.728	.721	.715	.708	.701	.694	.687	.681	.674	.667	.660	.654	.647	.640	.633	
80	.781	.774	.768	.761	.754	.747	.741	.734	.727	.720	.713	.707	.700	.693	.686	.679	.673	.666	
81	.815	.808	.801	.795	.788	.781	.774	.767	.761	.754	.747	.740	.733	.727	.720	.713	.706	.700	
82	.850	.843	.836	.829	.823	.816	.809	.802	.795	.789	.782	.775	.768	.761	.755	.748	.741	.734	
83	.886	.879	.872	.865	.858	.852	.845	.838	.831	.824	.817	.811	.804	.797	.790	.783	.777	.770	
84	.922	.916	.909	.902	.895	.888	.881	.875	.868	.861	.854	.847	.841	.834	.827	.820	.813	.807	
85	.960	.953	.947	.940	.933	.926	.919	.912	.906	.899	.892	.885	.878	.872	.865	.858	.851	.844	
86	.999	.992	.985	.979	.972	.965	.958	.951	.944	.938	.931	.924	.917	.910	.904	.907	.900	.893	
87	1.039	1.032	1.026	1.019	1.012	1.005	.998	.991	.985	.978	.971	.964	.957	.950	.944	.937	.930	.923	
88	1.080	1.074	1.067	1.060	1.053	1.046	1.039	1.032	1.026	1.019	1.012	1.005	.998	.991	.985	.978	.971	.964	
89	1.123	1.116	1.109	1.102	1.095	1.088	1.082	1.075	1.068	1.061	1.054	1.047	1.040	1.034	1.027	1.020	1.013	1.006	

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of 22°—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																	
	27	27.5	28	28.5	29	29.5	30	30.5	31	31.5	32	32.5	33	33.5	34	34.5	35	35.5
55	.076	.089	.063	.056	.050	.043	.036	.030	.023	.016	.010	.003						
56	.092	.085	.078	.072	.065	.059	.052	.045	.039	.032	.025	.019	.012	.005				
57	.108	.101	.095	.088	.081	.075	.068	.061	.055	.048	.041	.035	.028	.022	.015	.008		
58	.125	.118	.111	.105	.098	.091	.083	.078	.071	.065	.058	.051	.045	.038	.032	.025	.018	.012
59	.142	.135	.128	.122	.115	.108	.102	.095	.089	.082	.075	.069	.062	.055	.049	.042	.035	.029
60																		
61	.160	.153	.146	.140	.133	.126	.120	.113	.106	.100	.093	.086	.080	.073	.066	.060	.053	.046
62	.178	.171	.165	.158	.151	.145	.138	.131	.125	.118	.111	.105	.098	.091	.085	.078	.071	.065
63	.197	.190	.183	.177	.170	.163	.157	.150	.143	.137	.130	.123	.117	.110	.103	.097	.090	.083
64	.216	.210	.203	.196	.190	.183	.176	.170	.163	.156	.150	.143	.136	.130	.123	.116	.110	.103
65	.237	.230	.223	.217	.210	.203	.196	.190	.183	.176	.170	.163	.156	.150	.143	.136	.130	.123
66																		
65	.257	.251	.244	.237	.231	.224	.217	.211	.204	.197	.191	.184	.177	.170	.164	.157	.150	.144
66	.279	.272	.265	.259	.252	.245	.239	.232	.225	.219	.212	.205	.198	.192	.185	.178	.172	.165
67	.301	.294	.288	.281	.271	.263	.261	.254	.247	.241	.234	.227	.221	.214	.207	.200	.194	.187
68	.324	.317	.310	.304	.297	.290	.284	.277	.270	.264	.257	.250	.243	.237	.230	.223	.217	.210
69	.347	.341	.334	.327	.320	.314	.307	.300	.294	.287	.280	.273	.267	.260	.253	.247	.240	.233
70																		
70	.372	.365	.358	.352	.345	.338	.331	.325	.318	.311	.304	.298	.291	.284	.278	.271	.264	.257
71	.397	.390	.383	.377	.370	.363	.356	.350	.343	.336	.329	.323	.316	.309	.303	.296	.289	.282
72	.423	.416	.409	.402	.396	.389	.382	.376	.369	.362	.355	.348	.342	.335	.328	.321	.315	.308
73	.449	.442	.436	.430	.422	.415	.409	.402	.395	.388	.382	.375	.368	.361	.355	.348	.341	.334
74	.477	.470	.463	.456	.450	.443	.436	.429	.423	.416	.409	.402	.396	.389	.382	.375	.369	.362
75																		
75	.505	.498	.491	.485	.478	.471	.464	.457	.451	.441	.437	.430	.424	.417	.410	.403	.397	.390
76	.534	.527	.520	.514	.507	.500	.493	.487	.480	.473	.466	.459	.453	.446	.439	.432	.426	.419
77	.564	.557	.550	.543	.537	.530	.523	.516	.510	.503	.496	.489	.482	.476	.469	.462	.455	.449
78	.595	.588	.581	.574	.567	.561	.554	.547	.540	.534	.527	.520	.513	.506	.500	.493	.486	.479
79	.626	.620	.613	.606	.599	.593	.586	.579	.572	.565	.559	.552	.545	.538	.531	.525	.518	.511
80																		
80	.659	.652	.645	.639	.632	.625	.618	.612	.606	.598	.591	.584	.578	.571	.564	.557	.550	.544
81	.693	.686	.679	.672	.666	.659	.652	.645	.638	.632	.625	.618	.611	.604	.598	.591	.584	.577
82	.727	.721	.714	.707	.700	.693	.687	.680	.673	.666	.659	.653	.646	.639	.632	.625	.619	.612
83	.763	.756	.749	.743	.736	.729	.722	.715	.709	.702	.695	.688	.681	.675	.668	.661	.654	.647
84	.800	.793	.786	.779	.772	.766	.759	.752	.745	.738	.732	.725	.718	.711	.704	.697	.691	.684
85																		
85	.837	.831	.824	.817	.810	.803	.797	.790	.783	.776	.769	.762	.756	.749	.742	.735	.728	.721

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of 22°—(concluded).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.													
	36	36.5	37	37.5	38	38.5	39	39.5	40	40.5	41	41.5	42	42.5
55														
56														
57														
58	·005													
59	·022	·015	·009	·002										
60	·040	·033	·026	·020	·013	·006								
61	·058	·051	·045	·038	·031	·025	·018	·011	·005					
62	·077	·070	·063	·057	·050	·043	·037	·030	·023	·017	·010	·003		
63	·096	·089	·083	·076	·069	·063	·056	·049	·043	·038	·029	·023	·016	·009
64	·116	·110	·103	·096	·089	·083	·076	·069	·063	·056	·049	·043	·036	·029
65	·137	·130	·124	·117	·110	·103	·097	·090	·083	·077	·070	·063	·057	·050
66	·158	·152	·145	·138	·132	·125	·118	·111	·105	·098	·091	·085	·078	·071
67	·180	·174	·167	·160	·154	·147	·140	·133	·127	·120	·113	·107	·100	·093
68	·203	·196	·190	·183	·176	·170	·163	·156	·149	·143	·136	·129	·122	·116
69	·226	·220	·213	·206	·200	·193	·186	·179	·173	·166	·159	·153	·146	·139
70	·251	·244	·237	·231	·224	·217	·210	·204	·197	·190	·183	·177	·170	·163
71	·276	·269	·262	·255	·249	·242	·235	·229	·223	·215	·208	·202	·195	·188
72	·301	·295	·288	·281	·274	·268	·261	·254	·247	·241	·234	·227	·220	·214
73	·328	·321	·314	·307	·301	·294	·287	·281	·274	·267	·260	·254	·247	·240
74	·355	·348	·342	·335	·328	·321	·315	·308	·301	·294	·288	·281	·274	·267
75	·383	·376	·370	·363	·356	·349	·343	·336	·329	·322	·316	·309	·302	·295
76	·412	·405	·399	·392	·385	·378	·372	·365	·358	·351	·344	·338	·331	·324
77	·442	·435	·428	·422	·415	·408	·401	·394	·388	·381	·374	·367	·361	·354
78	·473	·466	·459	·452	·445	·439	·432	·425	·418	·412	·405	·398	·391	·384
79	·504	·498	·491	·484	·477	·470	·464	·457	·450	·443	·437	·430	·423	·416
80	·537	·530	·523	·517	·510	·503	·496	·489	·483	·476	·469	·462	·456	·449
81	·570	·564	·557	·550	·543	·536	·530	·523	·516	·509	·502	·496	·489	·482
82	·605	·598	·591	·585	·578	·571	·564	·557	·551	·544	·537	·530	·523	·517
83	·640	·634	·627	·620	·613	·606	·600	·593	·586	·579	·572	·566	·559	·552
84	·677	·670	·663	·657	·650	·643	·636	·629	·623	·616	·609	·602	·595	·588
85	·715	·708	·701	·694	·687	·681	·674	·667	·660	·653	·646	·640	·633	·626

TABLE V,

For finding the Relative Humidity of the Air, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches.

Wet bulb t'	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.													
	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
0	100	84	70	57	44	31	19	7						
1	100	85	71	58	46	33	22	11						
2	100	86	73	60	48	36	25	14	3					
3	100	87	74	61	50	38	28	17	7					
4	100	87	75	63	52	41	30	20	11	2				
5	100	88	76	64	54	43	33	23	14	5				
6	100	88	76	65	56	45	35	26	17	8				
7	100	88	77	67	57	47	37	28	19	11	4			
8	100	89	78	68	58	49	39	31	22	14	7			
9	100	89	78	69	60	51	42	33	25	17	10	2		
10	100	89	79	70	61	53	44	36	28	20	13	6		
11	100	90	79	71	62	54	46	38	30	23	16	9	3	
12	100	90	80	72	63	55	48	40	33	25	19	12	6	
13	100	90	81	73	65	57	49	41	35	28	21	15	9	3
14	100	91	82	74	66	58	50	43	36	30	23	18	12	6
15	100	91	83	75	67	59	52	45	39	33	26	20	15	9
16	100	91	83	76	68	61	54	47	41	35	29	23	17	12
17	100	92	84	76	69	62	56	49	43	37	31	26	20	15
18	100	92	84	77	70	63	57	51	44	39	33	28	23	18
19	100	92	85	78	71	64	58	52	46	41	35	30	24	20
20	100	93	86	79	73	65	59	53	48	42	37	32	27	22
21	100	93	86	79	72	66	60	55	49	44	39	34	29	25
22	100	93	86	80	73	67	61	56	51	46	41	36	31	27
23	100	93	87	80	74	68	63	57	52	47	42	37	33	29
24	100	93	87	81	75	69	64	59	53	49	44	39	35	31
25	100	93	87	81	75	70	65	60	55	50	45	41	37	33
26	100	94	88	82	76	71	66	61	56	51	47	42	38	35
27	100	94	88	82	77	72	67	62	57	53	48	44	40	36
28	100	94	88	82	77	72	68	63	58	54	50	46	42	38
29	100	94	88	83	78	73	68	64	59	55	51	47	44	40

TABLE V,

For finding the Relative Humidity of the Air, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches—(continued).

Wet bulb t'	VALUES OF $\delta-t'$ IN DEGREES, FAHRENHEIT.												
	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13
0													
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14	1												
15	4												
16	7	2											
17	10	5	1										
18	13	8	4										
19	16	11	7	3									
20	18	13	8	6	2								
21	20	17	12	8	5	1							
22	23	19	14	11	7	4							
23	25	21	17	13	10	7	3						
24	27	23	19	16	13	9	6	3					
25	29	25	21	18	15	12	8	5	2				
26	31	27	23	20	17	14	11	8	5	2			
27	32	29	25	22	19	16	13	10	7	4	2		
28	34	30	27	24	21	18	15	12	9	7	4	1	
29	36	32	29	26	23	20	18	15	12	9	7	4	1

TABLE V.

For finding the Relative Humidity of the Air, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches - (continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																	
	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5
30	100	94	90	85	79	74	69	64	60	56	53	49	45	41	37	34	31	28
31	100	94	90	85	79	74	69	65	62	58	54	50	47	43	39	36	33	30
32	100	94	90	85	79	75	70	65	61	57	53	49	45	41	38	34	31	28
33	100	94	90	85	80	75	70	66	62	58	54	50	46	43	39	36	33	30
34	100	95	90	85	80	76	71	67	63	59	55	51	48	44	41	37	34	31
35	100	95	90	86	81	77	72	68	64	60	56	53	49	46	42	39	36	33
36	100	95	91	86	81	77	73	69	65	61	57	54	50	47	44	40	37	34
37	100	95	91	86	82	78	74	70	66	62	58	55	51	48	45	42	39	36
38	100	95	91	87	82	78	74	70	66	62	59	56	53	49	46	43	40	37
39	100	95	91	87	83	79	75	71	67	63	60	57	53	50	47	44	41	38
40	100	95	92	87	83	79	75	72	68	64	61	57	54	51	48	45	43	40
41	100	95	92	88	83	79	76	72	68	65	62	58	55	52	49	46	44	41
42	100	96	92	88	84	80	76	73	69	66	63	59	56	53	50	47	45	42
43	100	96	92	88	84	80	77	73	70	66	63	60	57	54	51	48	46	43
44	100	96	92	88	84	81	77	74	71	67	64	61	58	55	52	49	47	44
45	100	96	93	89	85	81	78	74	71	68	65	62	59	56	53	50	48	45
46	100	96	93	89	85	82	76	75	72	69	66	63	60	57	54	51	49	46
47	100	96	93	89	85	82	79	75	72	69	66	63	61	58	55	52	50	47
48	100	96	93	89	86	82	79	76	73	70	67	64	61	59	56	53	51	48
49	100	96	93	90	86	83	79	76	73	70	68	65	62	59	57	54	52	49
50	100	96	93	90	86	83	80	77	74	71	68	65	63	60	58	55	53	50
51	100	96	93	90	86	83	80	77	74	71	69	66	63	61	58	56	54	51
52	100	96	93	90	87	84	80	78	75	72	69	67	64	61	59	57	55	52
53	100	96	94	90	87	84	81	78	75	72	70	67	65	62	60	57	55	53
54	100	96	94	91	87	84	81	78	76	73	70	68	65	63	60	58	56	54
55	100	97	94	91	87	84	81	79	76	73	71	69	66	63	61	59	57	55
56	100	97	94	91	88	85	82	79	76	74	71	69	67	64	62	60	58	55
57	100	97	94	91	88	85	82	79	77	74	72	69	67	65	63	60	58	55
58	100	97	94	91	88	85	82	80	77	75	72	70	68	65	63	61	59	57
59	100	97	94	91	88	85	82	80	78	75	73	70	68	66	64	62	60	58

TABLE V,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																
	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17
30	25	22	20	17	15	12	9	7	5	3	1						
31	27	24	22	19	16	14	12	9	7	5	3	1					
32	25	22	19	16	13	11	9	6	4	2							
33	27	24	21	18	15	13	11	8	6	4	2						
34	28	25	23	20	17	15	13	10	8	6	4	2					
35	30	27	25	22	19	17	15	12	10	8	6	4	2	1			
36	31	29	26	24	21	19	16	14	12	10	8	6	5	3	1		
37	33	30	28	25	23	20	18	16	14	12	10	8	6	5	3	1	
38	34	32	29	27	24	22	20	18	16	14	12	10	8	6	5	3	2
39	36	33	31	28	26	24	22	20	18	16	14	12	10	9	7	5	4
40	37	35	32	30	28	26	24	22	19	18	16	14	12	10	9	7	6
41	38	36	34	31	29	27	25	23	21	19	18	16	14	12	10	9	7
42	40	37	35	33	31	29	27	25	23	21	19	17	15	14	12	11	9
43	41	39	36	34	32	30	28	26	24	22	21	19	17	15	14	12	11
44	42	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	12
45	43	41	39	37	35	33	31	29	27	25	23	22	20	18	17	15	13
46	44	42	40	38	36	34	32	30	28	26	25	23	21	20	18	17	14
47	45	43	41	39	37	35	33	31	29	28	26	24	23	21	20	18	16
48	46	44	42	40	38	36	34	32	31	29	27	25	24	22	21	19	17
49	47	45	43	41	39	37	35	33	32	30	28	27	25	24	22	20	18
50	48	46	44	42	40	38	36	35	33	31	30	28	26	25	23	22	19
51	49	47	45	43	41	39	38	36	34	32	31	29	28	26	24	23	21
52	50	48	46	44	42	40	39	37	35	33	32	30	29	27	26	24	23
53	51	49	47	45	43	41	40	38	36	34	33	31	30	28	27	26	23
54	52	50	48	46	44	42	40	39	37	35	34	32	31	29	28	27	24
55	53	51	49	47	45	43	41	40	38	37	35	34	32	31	29	28	25
56	53	52	49	48	46	44	42	41	39	38	36	35	33	32	30	29	26
57	54	52	50	48	47	45	43	42	40	39	37	36	34	33	31	30	27
58	55	53	51	49	47	46	44	43	42	40	38	37	35	34	32	31	28
59	56	54	52	49	48	46	45	43	42	41	39	38	36	35	33	32	29

TABLE V,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t' thermometers at the mean barometric pressure of 29.7 inches - (continued)

Wet bulb t'	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																	
	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	25.5	26	26.5
30																		
31																		
32																		
33																		
34																		
35																		
36																		
37																		
38																		
39	1																	
40	3	1																
41	4	3	2	1														
42	6	5	4	2	1													
43	8	7	5	4	3	1	1											
44	10	8	7	6	5	3	2	1										
45	11	10	9	7	6	5	4	3	2	1								
46	13	11	10	9	8	7	5	4	3	1	1							
47	14	13	12	10	9	8	7	6	5	4	3	2	1					
48	15	14	13	12	10	9	8	7	6	5	4	3	2	1				
49	17	16	14	13	12	11	10	9	8	7	6	5	4	3	2	1	1	
50	18	17	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
51	19	18	17	16	15	13	12	11	10	10	9	8	7	6	5	4	3	3
52	21	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	4
53	22	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	5
54	23	22	20	19	18	17	16	15	14	13	12	11	11	10	9	8	7	6
55	24	23	22	20	19	18	17	16	15	14	13	13	12	11	10	9	8	8
56	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	9
57	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	10
58	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	11
59	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	12

TABLE V,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																	
	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5
60	100	97	94	91	89	86	83	80	78	76	73	71	69	66	64	62	60	58
61	100	97	94	92	89	86	84	81	78	76	73	71	69	67	65	63	61	59
62	100	97	94	92	89	86	84	81	79	76	74	72	70	67	65	63	61	59
63	100	97	95	92	89	87	84	81	79	77	74	72	70	68	66	64	62	60
64	100	97	95	92	89	87	84	82	79	77	75	73	70	68	66	64	62	60
65	100	97	95	92	89	87	85	82	80	77	75	73	71	69	67	65	63	61
66	100	97	95	92	90	87	85	82	80	78	76	73	71	69	67	65	63	61
67	100	97	95	92	90	87	85	83	80	78	76	74	72	70	68	66	64	62
68	100	97	95	92	90	88	85	83	81	78	76	74	72	70	68	66	64	62
69	100	97	95	92	90	88	85	83	81	79	76	74	72	71	69	67	65	63
70	100	97	95	93	90	88	86	83	81	79	77	75	73	71	69	67	65	63
71	100	98	95	93	90	88	86	84	81	79	77	75	73	71	70	68	66	64
72	100	98	95	93	90	88	86	84	82	79	77	75	74	72	70	68	66	64
73	100	98	95	93	90	88	86	84	82	80	78	76	74	72	70	68	67	65
74	100	98	95	93	91	88	86	84	82	80	78	76	74	72	71	69	67	65
75	100	98	95	93	91	89	86	84	82	80	78	76	74	73	71	69	67	65
76	100	98	95	93	91	89	87	85	82	80	78	77	75	73	71	69	68	66
77	100	98	95	93	91	89	87	85	83	81	79	77	75	73	72	70	68	66
78	100	98	95	93	91	89	87	85	83	81	79	77	75	74	72	70	68	67
79	100	98	96	93	91	89	87	85	83	81	79	77	76	74	72	70	69	67
80	100	98	96	93	91	89	87	85	83	81	79	78	76	74	72	71	69	68
81	100	98	96	93	91	89	87	85	83	81	80	78	76	74	73	71	69	68
82	100	98	96	94	91	89	87	85	84	82	80	78	76	75	73	71	70	68
83	100	98	96	94	91	89	86	84	82	80	78	77	75	73	72	70	69	68
84	100	98	96	94	92	90	88	86	84	82	80	79	77	75	74	72	70	69
85	100	98	96	94	92	90	88	86	84	82	81	79	77	76	74	72	71	69
86	100	98	96	94	92	90	88	86	84	82	81	79	77	76	74	73	71	70
87	100	98	96	94	92	90	88	86	84	83	81	79	78	76	74	73	71	70
88	100	98	96	94	92	90	88	86	85	83	81	79	78	76	75	73	72	70
89	100	98	96	94	92	90	88	86	85	83	81	80	78	77	75	73	72	71

TABLE V,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																	
	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5
60	56	54	53	51	49	47	46	44	43	41	40	38	37	35	34	33	31	30
61	57	55	53	52	50	48	46	45	43	42	40	39	38	36	35	34	32	31
62	57	56	54	52	51	49	47	45	44	43	41	40	38	37	36	34	33	32
63	58	56	55	53	51	50	48	46	45	44	42	41	39	38	37	35	34	33
64	58	57	55	54	52	50	49	47	46	44	43	41	40	38	37	36	35	34
65	59	57	56	54	53	51	49	48	46	45	43	42	41	40	38	37	36	35
66	60	58	56	55	53	52	50	48	47	46	44	43	42	40	39	38	36	35
67	60	59	57	55	54	52	51	49	48	46	45	44	42	41	40	39	37	36
68	61	59	59	56	54	53	51	50	48	47	45	44	43	41	40	39	38	37
69	61	60	58	57	55	53	52	50	49	47	46	45	44	42	41	40	39	38
70	61	60	58	57	56	54	52	51	49	48	47	45	44	43	42	40	39	38
71	62	60	59	58	56	55	53	52	50	49	47	46	45	44	42	41	40	39
72	62	61	60	58	57	55	54	52	51	49	48	47	45	44	43	42	41	39
73	63	61	60	59	57	56	54	53	51	50	49	47	46	45	44	43	41	40
74	63	62	60	59	58	56	55	53	52	50	49	48	47	45	44	43	42	41
75	64	63	61	59	58	57	55	54	52	51	50	48	47	46	45	44	43	42
76	64	63	61	60	58	57	56	54	53	51	50	49	48	46	45	44	43	42
77	65	63	62	60	59	57	56	55	53	52	51	49	48	47	46	45	44	43
78	65	64	62	61	59	58	56	55	54	52	51	50	49	48	47	45	44	43
79	66	64	63	61	60	58	57	56	54	53	52	50	49	48	47	46	45	44
80	66	65	63	62	60	59	57	56	55	53	52	51	50	49	47	46	45	44
81	66	65	63	62	61	59	58	57	55	54	53	51	50	49	48	47	46	45
82	67	65	64	63	61	60	58	57	56	54	53	52	51	50	49	48	47	46
83	67	66	64	63	61	60	59	57	56	55	54	52	51	50	49	48	47	46
84	67	66	64	63	62	60	59	58	56	55	54	53	52	51	49	48	47	46
85	68	66	65	63	62	61	59	58	57	55	54	53	52	51	50	49	48	47
86	68	67	65	64	63	61	60	59	57	56	55	54	53	52	51	50	49	47
87	68	67	65	64	63	61	60	59	58	56	55	54	53	52	51	50	49	48
88	69	67	66	64	63	62	60	59	58	57	56	54	53	52	51	50	49	48
89	69	68	66	65	63	62	61	60	58	57	56	55	54	53	52	50	49	48

TABLE V,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																		
	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	25.5	26	26.5	
60	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	15	14	13	
61	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	16	15	14	
62	31	30	29	28	26	26	25	24	23	22	21	20	19	18	17	17	16	15	
63	32	31	30	28	27	26	26	25	23	23	22	21	20	19	18	18	17	16	
64	33	32	30	29	28	27	26	25	24	23	23	22	21	20	19	18	18	17	
65	33	32	31	30	29	28	27	26	25	24	23	23	22	21	20	19	19	18	
66	34	33	32	31	30	29	28	27	26	25	24	23	23	22	21	20	19	19	
67	35	34	33	32	31	30	29	28	27	26	25	24	23	23	22	21	20	20	
68	36	35	34	33	32	31	30	29	28	27	26	25	24	23	23	22	21	20	
69	36	35	34	33	32	31	30	29	28	27	27	26	25	24	23	23	22	21	
70	37	36	35	34	33	32	31	30	29	28	27	26	26	25	24	23	23	22	
71	38	37	36	35	34	33	32	31	30	29	28	27	26	26	25	24	23	22	
72	38	37	36	35	34	33	32	32	31	30	29	28	27	26	26	25	24	23	
73	39	38	37	36	35	34	33	32	31	30	29	29	28	27	26	25	25	24	
74	40	39	38	37	36	35	34	33	32	31	30	29	29	28	27	26	25	24	
75	40	39	38	37	36	35	34	33	33	32	31	30	29	28	28	27	26	25	
76	41	40	39	38	37	36	35	34	33	32	31	31	30	29	28	27	27	26	
77	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	27	26	
78	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	27	26	
79	43	42	41	40	39	38	37	36	35	34	33	32	32	31	30	29	29	28	
80	43	42	41	40	39	38	38	37	36	35	34	33	32	31	30	29	28		
81	44	43	42	41	40	39	38	37	36	35	34	34	33	32	31	30	30	29	
82	44	43	42	41	40	39	39	38	37	36	35	34	33	32	31	30	29		
83	45	44	43	42	41	40	39	38	37	37	36	35	34	33	32	31	31	30	
84	45	44	43	42	41	40	39	38	37	36	35	35	34	33	32	31	31	31	
85	46	45	44	43	42	41	40	39	38	38	37	36	35	34	33	33	32	31	
86	46	45	44	43	42	41	41	40	39	38	37	36	36	35	34	33	33	32	
87	47	46	45	44	43	42	41	40	39	39	38	37	36	35	34	34	33	32	
88	47	46	45	44	43	42	42	41	40	39	38	37	36	35	34	34	33	33	
89	47	46	45	44	43	43	42	41	40	39	39	38	37	36	35	35	34	33	

TABLE V,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches—(continued).

Wet bulb t'	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																
	27	27.5	28	28.5	29	29.5	30	30.5	31	31.5	32	32.5	33	33.5	34	34.5	35
55	7	6	6	5	5	4	3	3	2	2	1	1					
56	8	7	7	6	6	5	4	4	3	3	2	2	1	1			
57	9	8	8	7	7	6	5	5	4	4	3	3	2	2	1	1	
58	10	9	9	8	8	7	6	6	5	5	4	4	3	3	2	2	1
59	11	10	10	9	9	8	7	7	6	6	5	5	4	3	3	2	2
60	12	11	11	10	9	9	8	8	7	7	6	6	5	5	4	3	3
61	13	12	12	11	10	10	9	9	8	8	7	7	6	6	5	4	4
62	14	13	13	12	11	11	10	10	9	9	8	8	7	7	6	5	5
63	15	14	14	13	12	12	11	10	10	9	9	8	8	7	7	6	6
64	16	15	15	14	13	13	12	11	11	10	10	9	9	8	7	7	6
65	17	16	16	15	14	14	13	12	12	11	11	10	10	9	8	8	7
66	18	17	17	16	15	15	14	13	13	12	12	11	11	10	9	9	8
67	19	18	17	17	16	15	15	14	14	13	13	12	11	11	10	10	9
68	20	19	18	18	17	16	16	15	15	14	13	13	12	11	11	10	10
69	21	20	19	18	18	17	16	16	15	14	14	13	13	12	12	11	11
70	21	21	20	19	19	18	17	17	16	16	15	15	14	14	13	12	12
71	22	21	21	20	19	19	18	17	17	16	16	15	15	14	14	13	12
72	23	22	21	21	20	19	19	18	17	17	16	16	15	15	14	13	13
73	23	23	22	21	21	20	19	19	18	18	17	17	16	16	15	14	14
74	21	23	23	22	21	21	20	19	19	18	18	17	17	16	15	15	14
75	24	24	23	23	22	21	21	20	19	19	18	18	17	17	16	15	15
76	25	24	24	23	23	22	21	21	20	20	19	19	18	18	17	17	16
77	26	25	25	24	23	23	22	21	21	20	20	19	19	18	18	17	16
78	26	26	25	25	24	23	23	22	21	21	20	20	19	19	18	17	17
79	27	26	26	25	25	24	23	23	22	22	21	21	20	20	19	18	18
80	26	27	26	26	25	25	24	23	23	22	22	21	21	20	20	19	19
81	28	28	27	26	26	25	25	24	23	23	22	22	21	21	20	19	19
82	29	28	28	27	26	26	25	25	24	23	23	22	22	21	21	20	19
83	29	29	28	27	27	26	26	25	24	24	23	23	22	22	21	21	20
84	30	29	29	28	27	27	26	26	25	24	24	23	23	22	21	21	20
85	30	30	29	28	28	27	27	26	25	25	24	24	23	23	22	21	21

TABLE V,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches—(concluded).

Wet bulb t' .	VALUES OF $t - t'$ IN DEGREES, FAHRENHEIT.													
	36	36.5	37	37.5	38	38.5	39	39.5	40	40.5	41	41.5	42	42.5
55														
56														
57														
58														
59	1	1												
60	2	2	1	1	1									
61	3	3	2	2	2	1	1							
62	4	4	3	3	3	2	2	1	1	1				
63	5	5	4	4	3	3	3	2	2	2	1	1	1	
64	6	5	5	5	4	4	4	3	3	3	2	2	2	1
65	7	6	6	6	5	5	5	4	4	3	3	2	2	
66	8	7	7	6	6	6	5	5	5	4	4	3	3	
67	9	8	8	7	7	7	6	6	5	5	5	4	4	
68	9	9	9	8	8	7	7	6	6	6	5	5	4	
69	10	10	9	9	8	8	8	7	7	6	6	5	5	
70	11	11	10	10	9	9	8	8	7	7	6	6	6	
71	12	11	11	10	10	10	9	8	8	7	7	7	6	
72	12	12	11	11	11	10	10	9	9	8	8	8	7	
73	13	13	12	12	11	11	10	10	10	9	9	8	6	
74	14	13	13	12	12	12	11	11	10	10	9	9	8	
75	14	14	13	13	13	12	12	11	11	10	10	10	9	
76	15	15	14	14	13	13	12	12	11	11	10	10	10	
77	16	15	15	14	14	13	13	13	12	11	11	11	10	
78	16	16	15	15	15	14	14	13	13	12	12	12	11	
79	17	17	16	16	15	15	14	14	13	13	12	12	12	
80	18	17	17	16	16	15	15	14	14	13	13	13	12	
81	18	18	17	17	16	16	15	15	15	14	14	13	13	
82	19	18	18	17	17	16	16	16	15	15	14	14	13	
83	19	19	18	18	17	17	17	16	16	15	15	14	14	
84	20	19	19	18	18	17	17	17	16	16	15	15	14	
85	20	20	19	19	18	18	18	17	17	16	16	15	15	

TABLE VI,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 27.7 inches and in the latitude of 22°.

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.														
	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7
23	'123	'117	'112	'106	'101	'095	'090	'084	'079	'073	'068	'062	'057	'051	'046
24	'128	'123	'117	'112	'106	'101	'095	'090	'084	'079	'073	'068	'062	'057	'051
25	'134	'128	'123	'117	'112	'106	'101	'095	'090	'085	'079	'074	'068	'063	'057
26	'140	'134	'129	'123	'118	'112	'107	'101	'096	'090	'085	'080	'074	'069	'063
27	'146	'141	'135	'130	'124	'119	'113	'108	'102	'097	'091	'086	'080	'075	'069
28	'153	'147	'142	'136	'131	'125	'120	'114	'109	'103	'098	'092	'087	'081	'076
29	'159	'154	'148	'143	'137	'132	'126	'121	'115	'110	'104	'099	'093	'088	'082
30	'167	'161	'155	'150	'144	'139	'133	'128	'122	'117	'111	'106	'100	'095	'089
31	'174	'168	'163	'157	'152	'146	'141	'135	'130	'124	'119	'113	'108	'102	'097
32	'182	'175	'169	'163	'157	'151	'145	'139	'133	'127	'121	'115	'109	'103	'097
33	'189	'183	'177	'171	'165	'159	'152	'146	'140	'134	'128	'122	'116	'110	'104
34	'196	'190	'184	'178	'172	'166	'160	'154	'148	'142	'135	'129	'123	'117	'111
35	'204	'198	'192	'186	'180	'174	'168	'162	'155	'149	'143	'137	'131	'125	'119
36	'213	'206	'200	'194	'188	'182	'176	'170	'164	'157	'151	'145	'139	'133	'127
37	'221	'215	'209	'203	'197	'190	'184	'178	'172	'166	'160	'154	'148	'141	'135
38	'230	'224	'218	'211	'205	'199	'193	'187	'181	'175	'168	'162	'156	'150	'144
39	'239	'233	'227	'220	'214	'208	'202	'196	'190	'184	'177	'171	'165	'159	'153
40	'248	'242	'236	'230	'224	'218	'211	'205	'199	'193	'187	'181	'175	'169	'163
41	'258	'252	'246	'239	'233	'227	'221	'215	'209	'203	'196	'190	'184	'178	'172
42	'268	'262	'256	'250	'243	'237	'231	'225	'219	'213	'206	'200	'194	'188	'182
43	'278	'272	'266	'260	'254	'248	'241	'235	'229	'223	'217	'211	'204	'198	'192
44	'289	'283	'277	'270	'264	'258	'252	'246	'240	'234	'227	'221	'215	'209	'203
45	'300	'294	'288	'282	'276	'270	'263	'257	'251	'245	'239	'233	'226	'220	'214
46	'312	'306	'299	'293	'287	'281	'275	'268	'262	'256	'250	'244	'238	'231	'225
47	'324	'317	'311	'305	'299	'283	'286	'280	'274	'268	'262	'256	'249	'243	'237
48	'336	'330	'323	'317	'311	'305	'300	'293	'286	'280	'274	'268	'262	'255	'249
49	'349	'342	'336	'330	'324	'318	'311	'305	'299	'293	'287	'280	'274	'268	'262
50	'362	'356	'349	'343	'337	'331	'325	'319	'312	'306	'300	'294	'288	'282	'276
51	'375	'369	'363	'357	'351	'344	'338	'332	'326	'320	'314	'307	'301	'295	'289
52	'389	'383	'377	'371	'365	'359	'352	'346	'340	'334	'328	'321	'315	'309	'303

TABLE VI,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry and wet bulb thermometers, at the mean barometric pressure of 27.7 inches and in the latitude of 22°—(continued).

Wet bulb θ' .	VALUES OF $\delta - \delta'$ IN DEGREES, FAHRENHEIT.																	
	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16
23	.040	.035	.030	.024	.019	.013	.008	.002										
24	.046	.040	.035	.029	.024	.018	.013	.008	.002									
25	.052	.046	.041	.035	.030	.024	.019	.013	.008	.002								
26	.058	.052	.047	.041	.036	.030	.025	.019	.014	.008	.003							
27	.064	.058	.053	.047	.042	.036	.031	.025	.020	.014	.009	.003						
28	.070	.065	.059	.054	.048	.043	.037	.032	.026	.021	.015	.010	.004					
29	.077	.071	.066	.060	.055	.049	.044	.038	.033	.027	.022	.016	.011	.005				
30	.084	.078	.073	.067	.062	.056	.051	.045	.040	.034	.029	.023	.018	.012	.007			
31	.091	.086	.080	.075	.069	.064	.058	.053	.047	.042	.036	.031	.026	.020	.014	.009	.003	
32	.091	.085	.079	.073	.066	.060	.054	.048	.042	.036	.030	.024	.018	.012	.006			
33	.098	.092	.086	.080	.074	.068	.062	.056	.049	.043	.037	.031	.025	.019	.013	.007		
34	.105	.099	.093	.087	.080	.074	.068	.062	.056	.050	.044	.038	.032	.026	.019	.015	.007	
35	.113	.107	.100	.094	.088	.082	.076	.071	.064	.058	.052	.046	.039	.033	.027	.021	.015	.009
36	.121	.115	.106	.102	.096	.090	.084	.078	.072	.066	.060	.053	.047	.041	.035	.029	.023	.017
37	.129	.123	.117	.111	.105	.099	.092	.086	.080	.074	.068	.062	.056	.050	.043	.037	.031	.025
38	.138	.132	.126	.119	.113	.107	.101	.095	.089	.083	.077	.070	.064	.058	.052	.046	.040	.034
39	.147	.141	.135	.128	.122	.116	.110	.104	.098	.092	.085	.079	.073	.067	.061	.055	.049	.043
40	.156	.150	.144	.138	.132	.125	.119	.113	.107	.101	.095	.089	.082	.076	.070	.064	.058	.052
41	.166	.160	.153	.147	.141	.135	.129	.123	.117	.110	.104	.098	.092	.086	.080	.074	.067	.061
42	.176	.170	.163	.157	.151	.145	.139	.133	.127	.120	.114	.108	.102	.096	.090	.083	.077	.071
43	.186	.180	.174	.167	.161	.155	.149	.143	.137	.131	.124	.118	.112	.106	.100	.094	.087	.081
44	.196	.190	.184	.178	.172	.166	.160	.153	.147	.141	.135	.129	.123	.117	.110	.104	.098	.092
45	.206	.202	.196	.189	.183	.177	.171	.165	.159	.152	.146	.140	.134	.128	.122	.115	.109	.103
46	.219	.213	.207	.201	.194	.188	.182	.176	.170	.164	.157	.151	.145	.139	.133	.127	.120	.114
47	.231	.225	.218	.212	.206	.200	.194	.188	.181	.175	.169	.163	.157	.151	.144	.138	.132	.126
48	.243	.237	.231	.225	.218	.212	.206	.200	.194	.187	.181	.175	.169	.163	.157	.150	.144	.138
49	.256	.250	.243	.237	.231	.225	.219	.212	.206	.200	.194	.188	.181	.175	.169	.163	.157	.151
50	.269	.263	.257	.251	.245	.239	.233	.226	.220	.214	.208	.202	.196	.189	.183	.177	.171	.165
51	.283	.277	.271	.264	.258	.252	.246	.240	.234	.227	.221	.215	.209	.203	.197	.190	.184	.178
52	.297	.291	.284	.278	.272	.266	.260	.254	.247	.241	.235	.229	.223	.217	.210	.204	.198	.192

TABLE VI,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 277. inches and in the latitude of 22° —(continued).

Wet bulb t'	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																		
	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	
23																			
24																			
25																			
26																			
27																			
28																			
29																			
30																			
31																			
32																			
33																			
34																			
35	'003																		
36	'011	'005																	
37	'019	'013	'007																
38	'028	'021	'015	'009	'003														
39	'036	'030	'024	'018	'012	'006													
40	'046	'039	'033	'027	'021	'015	'009	'003											
41	'055	'049	'043	'037	'030	'024	'018	'012	'006										
42	'065	'069	'063	'047	'040	'034	'028	'022	'016	'010	'004								
43	'075	'089	'063	'057	'051	'044	'038	'032	'026	'020	'014	'007	'001						
44	'086	'080	'073	'067	'061	'055	'049	'043	'036	'030	'024	'018	'012	'006					
45	'097	'091	'085	'078	'072	'066	'060	'054	'048	'041	'035	'029	'023	'017	'011	'004			
46	'108	'102	'096	'089	'083	'077	'071	'065	'059	'052	'046	'040	'034	'028	'022	'015	'009	'003	
47	'120	'113	'107	'101	'095	'089	'083	'076	'070	'064	'058	'052	'045	'039	'033	'027	'021	'015	
48	'132	'126	'119	'113	'107	'101	'095	'088	'082	'076	'070	'064	'058	'051	'045	'039	'032	'027	
49	'144	'138	'132	'126	'120	'113	'107	'101	'095	'089	'082	'076	'070	'064	'058	'051	'045	'039	
50	'156	'152	'146	'140	'134	'128	'122	'116	'109	'103	'097	'091	'085	'079	'073	'066	'060	'054	
51	'172	'166	'160	'153	'147	'141	'135	'129	'123	'116	'110	'104	'096	'092	'086	'079	'073	'067	
52	'186	'180	'173	'167	'161	'155	'149	'143	'136	'130	'124	'118	'112	'106	'099	'093	'087	'081	

TABLE VI,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 27.7 inches and in the latitude of 22°—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.														
	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7
53	'404	'398	'391	'385	'379	'373	'367	'361	'354	'348	'342	'336	'330	'323	'317
54	'419	'413	'406	'400	'394	'388	'382	'375	'369	'363	'357	'351	'344	'338	'332
55	'434	'428	'422	'416	'409	'403	'397	'391	'385	'378	'372	'366	'360	'354	'348
56	'450	'444	'438	'432	'425	'419	'413	'407	'401	'394	'388	'382	'376	'370	'363
57	'467	'460	'454	'448	'442	'436	'429	'423	'417	'411	'405	'398	'392	'386	'380
58	'484	'477	'471	'465	'459	'453	'446	'440	'434	'428	'422	'415	'409	'403	'397
59	'501	'495	'489	'483	'476	'470	'464	'458	'451	'445	'439	'433	'427	'420	'414
60	'519	'513	'507	'501	'494	'488	'482	'476	'470	'463	'457	'451	'445	'439	'432
61	'538	'532	'525	'519	'513	'507	'501	'494	'488	'482	'476	'470	'463	'457	'451
62	'557	'551	'545	'538	'532	'526	'520	'513	'507	'501	'495	'488	'482	'476	'470
63	'577	'571	'565	'558	'552	'546	'540	'533	'527	'521	'515	'508	'502	'496	'490
64	'598	'591	'585	'579	'573	'566	'560	'554	'548	'541	'535	'529	'523	'517	'510
65	'619	'613	'606	'600	'594	'588	'581	'575	'569	'563	'556	'550	'544	'538	'531
66	'641	'634	'628	'622	'616	'609	'603	'597	'591	'584	'578	'572	'566	'559	'553
67	'663	'657	'651	'644	'638	'632	'626	'619	'613	'607	'601	'594	'588	'582	'576
68	'686	'680	'674	'667	'661	'655	'649	'642	'636	'630	'624	'617	'611	'605	'599
69	'710	'704	'698	'691	'685	'679	'673	'666	'660	'654	'647	'641	'635	'629	'622
70	'735	'729	'722	'716	'710	'703	'697	'691	'685	'678	'672	'666	'660	'653	'647
71	'760	'754	'748	'741	'735	'729	'723	'716	'710	'704	'697	'691	'685	'679	'672
72	'786	'780	'774	'767	'761	'755	'749	'742	'736	'730	'724	'717	'711	'705	'698
73	'813	'807	'801	'794	'788	'782	'775	'769	'763	'757	'750	'744	'738	'731	'725
74	'841	'835	'828	'822	'816	'810	'803	'797	'791	'784	'778	'772	'765	'759	'753
75	'870	'863	'857	'851	'844	'838	'832	'825	'819	'813	'807	'800	'794	'788	'781
76	'899	'893	'886	'880	'874	'867	'861	'855	'849	'842	'836	'830	'823	'817	'811
77	'929	'923	'917	'910	'904	'898	'891	'885	'879	'872	'866	'860	'853	'847	'841
78	'960	'954	'948	'941	'935	'929	'923	'916	'910	'904	'897	'891	'885	'878	'872
79	'983	'988	'980	'974	'967	'961	'955	'948	'942	'936	'929	'923	'917	'910	'904
80	1'026	1'019	1'013	1'007	1'000	'994	'988	'981	'975	'969	'962	'956	'950	'943	'937
81	1'060	1'053	1'047	1'041	1'034	1'028	1'022	1'015	1'009	1'003	'996	'990	'984	'977	'971
82	1'095	1'088	1'082	1'076	1'069	1'063	1'057	1'050	1'044	1'038	1'031	1'025	1'018	1'012	1'006

TABLE VI,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 27.7 inches and in the latitude of 22°—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																	
	75	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16
53	·311	·305	·299	·293	·286	·280	·274	·268	·262	·256	·249	·243	·237	·231	·226	·219	·212	·206
54	·326	·320	·314	·307	·301	·295	·289	·283	·277	·270	·264	·258	·252	·246	·240	·233	·227	·221
55	·341	·335	·329	·323	·317	·310	·304	·298	·292	·286	·280	·273	·267	·261	·255	·249	·242	·236
56	·357	·351	·345	·339	·333	·326	·320	·314	·306	·302	·295	·289	·283	·277	·271	·264	·258	·252
57	·374	·368	·361	·355	·349	·343	·337	·330	·324	·318	·312	·306	·299	·293	·287	·281	·275	·268
58	·391	·384	·378	·372	·366	·360	·353	·347	·341	·335	·329	·322	·316	·310	·304	·298	·291	·285
59	·408	·402	·396	·389	·383	·377	·371	·365	·358	·352	·346	·340	·334	·327	·321	·315	·309	·302
60	·426	·420	·414	·407	·401	·395	·389	·383	·376	·370	·364	·358	·352	·345	·339	·333	·327	·320
61	·445	·438	·432	·426	·420	·414	·407	·401	·395	·389	·383	·376	·370	·364	·358	·351	·345	·339
62	·463	·457	·451	·445	·438	·433	·426	·420	·414	·407	·401	·395	·389	·383	·376	·370	·364	·357
63	·483	·477	·471	·465	·458	·452	·446	·440	·433	·427	·421	·415	·408	·402	·396	·390	·383	·377
64	·504	·498	·492	·485	·479	·473	·467	·460	·454	·448	·442	·435	·429	·423	·417	·411	·404	·398
65	·525	·519	·513	·506	·500	·494	·488	·481	·475	·469	·463	·456	·450	·444	·438	·431	·425	·419
66	·547	·541	·534	·528	·522	·516	·508	·503	·497	·491	·484	·478	·472	·466	·459	·453	·447	·441
67	·569	·563	·557	·551	·544	·538	·532	·526	·519	·513	·507	·500	·494	·488	·482	·475	·469	·463
68	·592	·586	·580	·574	·567	·561	·555	·549	·542	·536	·530	·524	·517	·511	·505	·498	·492	·486
69	·616	·610	·604	·597	·591	·585	·579	·572	·566	·560	·553	·547	·541	·535	·528	·522	·516	·510
70	·641	·634	·628	·622	·616	·609	·603	·597	·591	·584	·578	·572	·565	·559	·553	·547	·540	·534
71	·666	·660	·653	·647	·641	·635	·628	·622	·616	·610	·603	·597	·591	·584	·578	·572	·566	·559
72	·692	·686	·680	·673	·667	·661	·654	·648	·642	·636	·629	·623	·617	·610	·604	·598	·592	·585
73	·719	·713	·706	·700	·694	·687	·681	·675	·669	·662	·656	·650	·643	·637	·631	·625	·618	·612
74	·737	·740	·734	·728	·721	·715	·709	·703	·696	·690	·684	·677	·671	·665	·658	·652	·646	·640
75	·775	·769	·763	·756	·750	·744	·737	·731	·725	·718	·712	·706	·700	·693	·687	·681	·674	·668
76	·804	·798	·792	·785	·779	·773	·767	·760	·754	·748	·741	·735	·729	·722	·716	·710	·703	·697
77	·835	·828	·822	·816	·809	·803	·797	·790	·784	·778	·771	·765	·759	·753	·746	·740	·734	·727
78	·866	·859	·853	·847	·840	·834	·828	·821	·815	·809	·802	·796	·790	·783	·777	·771	·765	·758
79	·898	·891	·885	·879	·872	·866	·860	·853	·847	·841	·834	·828	·822	·816	·809	·803	·797	·790
80	·921	·914	·918	·912	·905	·899	·893	·886	·880	·874	·867	·861	·855	·848	·842	·836	·829	·823
81	·935	·928	·922	·916	·909	·903	·907	·900	·914	·908	·901	·895	·889	·883	·876	·869	·863	·857
82	·959	·953	·947	·940	·934	·928	·921	·915	·909	·902	·896	·890	·883	·877	·871	·864	·858	·852

TABLE VI.

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry δ and wet bulb ℓ thermometers, at the mean barometric pressure of 27.7 inches and in the latitude of 22° —(continued).

Wet bulb ℓ° .	VALUES OF $\delta - \ell$ IN DEGREES, FAHRENHEIT.																			
	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25		
53	200	194	188	182	175	169	163	157	151	144	138	132	126	120	114	107	101	95		
54	215	209	202	196	190	184	178	172	165	159	153	147	141	134	128	122	116	110		
55	230	224	218	212	205	199	193	187	181	174	168	162	156	150	143	137	131	125		
56	246	240	233	227	221	215	209	202	196	190	184	178	172	165	159	153	147	141		
57	262	256	250	244	237	231	225	219	213	206	200	194	188	182	175	169	163	157		
58	279	273	267	260	254	248	242	236	229	223	217	211	205	198	192	186	180	174		
59	296	290	284	278	271	265	259	253	247	240	234	228	222	216	209	203	197	191		
60	314	308	302	296	289	283	277	271	265	258	252	246	240	233	227	221	215	209		
61	333	326	320	314	308	302	296	289	283	277	271	264	258	252	246	238	233	227		
62	351	345	339	332	326	320	314	307	301	295	289	282	276	270	264	257	251	245		
63	371	365	358	352	346	340	333	327	321	315	308	302	296	290	283	277	271	265		
64	392	386	379	373	367	361	354	348	342	336	329	323	317	311	304	298	292	286		
65	413	407	400	394	388	382	375	369	363	357	350	344	338	332	325	319	313	307		
66	434	428	422	416	409	403	397	391	384	378	372	366	359	353	347	341	334	328		
67	457	450	444	438	432	425	419	413	407	400	394	388	382	375	369	363	357	350		
68	480	473	467	461	455	448	442	436	430	423	417	411	405	398	392	386	380	373		
69	503	497	491	485	478	472	466	459	453	447	441	434	428	422	416	409	403	397		
70	526	522	515	509	503	496	490	484	478	471	465	459	453	446	440	434	427	421		
71	553	547	540	534	528	522	515	509	503	497	490	484	478	471	465	459	453	446		
72	579	573	566	560	554	548	541	535	529	522	516	510	504	497	491	485	478	472		
73	606	599	593	587	581	574	568	562	555	549	543	536	530	524	518	511	505	499		
74	633	627	621	614	608	602	595	589	583	577	570	564	558	551	545	539	533	526		
75	662	655	649	643	636	630	624	618	611	605	599	592	586	580	573	567	561	555		
76	691	685	678	672	666	659	653	647	640	634	628	621	615	609	603	596	590	584		
77	721	715	708	702	696	689	683	677	670	664	658	651	645	639	633	626	620	614		
78	752	746	739	733	727	720	714	708	701	695	689	683	676	670	663	657	651	644		
79	784	778	771	765	759	753	746	740	733	727	721	714	708	702	695	689	683	676		
80	817	810	804	798	791	785	779	772	766	760	753	747	741	734	728	722	715	709		
81	850	844	838	831	825	819	812	806	800	793	787	781	774	768	762	755	749	743		
82	885	879	873	866	860	854	847	841	835	828	822	816	809	803	796	790	784	777		

TABLE VI,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 27.7 inches and in the latitude of 22°—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																	
	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	30.5	31	31.5	32	32.5	33	33.5	34
48	'020	'014	'008	'002														
49	'033	'027	'021	'014	'008	'002												
50	'048	'042	'035	'029	'023	'017	'011	'005										
51	'061	'055	'049	'043	'036	'030	'024	'018	'012	'006								
52	'075	'069	'062	'056	'050	'044	'038	'032	'025	'019	'013	'007						
53	'089	'083	'077	'070	'064	'058	'052	'046	'040	'033	'027	'021	'015	'009	'003			
54	'104	'097	'091	'085	'079	'073	'067	'060	'054	'048	'042	'036	'029	'023	'017	'011	'005	
55	'119	'113	'106	'100	'094	'088	'082	'075	'069	'063	'057	'051	'045	'038	'032	'026	'020	'014
56	'134	'128	'122	'116	'110	'103	'097	'091	'085	'079	'072	'066	'060	'054	'048	'042	'035	'029
57	'151	'144	'138	'132	'126	'120	'113	'107	'101	'095	'089	'083	'076	'070	'064	'058	'052	'046
58	'167	'161	'155	'149	'142	'136	'130	'124	'118	'111	'105	'099	'093	'087	'080	'074	'068	'062
59	'186	'178	'172	'166	'160	'154	'147	'141	'135	'129	'122	'116	'110	'104	'098	'091	'085	'079
60	'202	'196	'190	'184	'178	'171	'165	'159	'153	'146	'140	'134	'128	'122	'115	'109	'103	'097
61	'221	'215	'208	'202	'196	'190	'183	'177	'171	'165	'159	'153	'146	'140	'134	'127	'121	'115
62	'239	'232	'226	'220	'214	'207	'201	'195	'189	'182	'176	'170	'164	'157	'151	'145	'139	'132
63	'258	'252	'246	'240	'233	'227	'221	'214	'208	'202	'196	'190	'183	'177	'171	'165	'158	'152
64	'280	'273	'267	'261	'255	'248	'242	'236	'230	'223	'217	'211	'205	'198	'192	'186	'180	'174
65	'300	'294	'288	'282	'275	'269	'263	'257	'250	'244	'238	'233	'225	'219	'213	'207	'200	'194
66	'322	'316	'309	'303	'297	'291	'284	'278	'272	'266	'259	'253	'247	'241	'235	'228	'222	'216
67	'344	'338	'332	'325	'319	'313	'307	'300	'294	'288	'282	'275	'269	'263	'257	'250	'244	'238
68	'367	'361	'354	'348	'342	'336	'329	'323	'317	'311	'304	'298	'292	'286	'279	'273	'267	'261
69	'391	'384	'378	'372	'366	'359	'353	'347	'340	'334	'328	'322	'315	'309	'303	'297	'290	'284
70	'415	'409	'402	'393	'390	'381	'377	'371	'365	'358	'352	'346	'340	'333	'327	'321	'315	'308
71	'440	'434	'427	'421	'415	'409	'402	'396	'389	'384	'377	'371	'365	'358	'352	'346	'340	'333
72	'466	'460	'453	'447	'441	'434	'428	'422	'416	'409	'403	'397	'390	'384	'378	'372	'365	'359
73	'492	'486	'480	'474	'467	'461	'455	'448	'442	'436	'430	'423	'417	'411	'404	'398	'392	'386
74	'520	'514	'507	'501	'495	'488	'482	'476	'470	'463	'457	'451	'444	'438	'432	'426	'419	'413
75	'548	'542	'536	'529	'523	'517	'510	'504	'498	'491	'485	'479	'473	'466	'460	'454	'447	'441
76	'577	'571	'565	'558	'552	'546	'539	'533	'527	'521	'514	'508	'502	'495	'489	'483	'476	'470
77	'607	'601	'595	'588	'582	'576	'569	'563	'557	'550	'544	'538	'532	'525	'519	'513	'508	'500
78	'638	'632	'626	'619	'613	'607	'600	'594	'588	'581	'575	'569	'562	'556	'550	'543	'537	'531
79	'670	'664	'657	'651	'645	'638	'632	'626	'619	'613	'607	'600	'594	'588	'581	'575	'569	'563
80	'703	'696	'690	'684	'677	'671	'665	'658	'652	'646	'639	'633	'627	'620	'614	'608	'601	'595
81	'736	'730	'724	'717	'711	'705	'700	'692	'686	'679	'673	'667	'660	'654	'648	'641	'635	'629
82	'771	'765	'758	'752	'746	'739	'733	'727	'720	'714	'708	'701	'695	'689	'683	'676	'670	'663

TABLE VI,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 27.7 inches and in the latitude of 22°—(concluded).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																		
	34.5	35	35.5	36	36.5	37	37.5	38	38.5	39	39.5	40	40.5	41	41.5	42	42.5		
53																			
54																			
55	.007																		
56	.023	.017	.011	.004															
57	.039	.033	.027	.021	.014	.008	.002												
58	.056	.049	.043	.037	.031	.025	.018	.012	.006										
59	.073	.067	.060	.054	.048	.042	.036	.029	.023	.017	.011	.005							
60	.091	.084	.078	.072	.066	.060	.053	.047	.041	.035	.028	.022	.016	.010	.004				
61	.109	.103	.096	.090	.084	.078	.072	.065	.059	.053	.047	.040	.034	.028	.022	.016	.009		
62	.126	.120	.114	.107	.101	.095	.089	.082	.076	.070	.064	.057	.051	.045	.039	.032	.026		
63	.146	.140	.133	.127	.121	.115	.108	.102	.096	.090	.083	.077	.071	.065	.058	.052	.046		
64	.167	.161	.155	.149	.142	.136	.130	.124	.117	.111	.105	.099	.092	.086	.080	.074	.068		
65	.188	.182	.176	.169	.163	.157	.151	.144	.138	.132	.126	.119	.113	.107	.101	.094	.088		
66	.210	.203	.197	.191	.185	.178	.172	.166	.160	.153	.147	.141	.135	.128	.122	.116	.110		
67	.232	.225	.219	.213	.207	.200	.194	.188	.182	.175	.169	.163	.157	.150	.144	.138	.132		
68	.254	.248	.242	.236	.229	.223	.217	.211	.204	.198	.192	.186	.179	.173	.167	.160	.154		
69	.276	.272	.265	.260	.253	.246	.240	.234	.228	.221	.215	.209	.203	.196	.190	.184	.178		
70	.298	.296	.290	.283	.277	.271	.264	.258	.252	.246	.239	.233	.227	.221	.214	.208	.202		
71	.327	.321	.314	.308	.302	.296	.289	.283	.277	.271	.264	.258	.252	.245	.239	.233	.227		
72	.353	.346	.340	.334	.328	.321	.315	.309	.303	.296	.290	.284	.277	.271	.265	.259	.253		
73	.379	.373	.367	.360	.354	.348	.342	.335	.329	.323	.316	.310	.304	.297	.291	.285	.279		
74	.407	.400	.394	.388	.381	.375	.369	.363	.356	.350	.344	.337	.331	.325	.318	.312	.306		
75	.435	.428	.422	.416	.419	.403	.397	.391	.384	.378	.372	.365	.359	.353	.347	.340	.334		
76	.464	.457	.451	.445	.439	.432	.426	.420	.413	.407	.401	.394	.388	.382	.375	.369	.363		
77	.494	.487	.481	.475	.468	.462	.456	.449	.443	.437	.430	.424	.418	.412	.405	.399	.383		
78	.524	.518	.512	.505	.499	.493	.486	.480	.474	.468	.461	.455	.449	.443	.436	.430	.423		
79	.553	.550	.544	.537	.531	.525	.518	.512	.506	.500	.493	.487	.480	.474	.468	.461	.455		
80	.580	.583	.576	.570	.563	.557	.551	.544	.538	.533	.525	.519	.513	.506	.500	.494	.487		
81	.602	.616	.610	.603	.597	.591	.584	.578	.572	.565	.559	.553	.546	.540	.534	.527	.521		
82	.637	.651	.644	.638	.632	.625	.619	.613	.606	.600	.593	.587	.581	.574	.568	.562	.555		

TABLE VII,

For finding the Relative Humidity of the Air, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 27.7 inches.

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.														
	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7
23	100	94	88	81	75	69	64	59	54	49	44	40	36	32	28
24	100	94	88	82	76	70	65	60	55	50	46	41	37	33	29
25	100	94	88	82	77	71	66	61	57	53	47	43	39	35	31
26	100	94	88	83	77	72	67	62	58	53	49	45	41	37	33
27	100	94	88	83	78	73	68	63	59	55	50	46	42	39	35
28	100	94	89	83	78	74	69	64	60	56	52	48	44	41	37
29	100	94	89	84	79	74	70	65	61	57	53	49	46	42	38
30	100	95	89	84	79	75	71	66	62	58	54	51	47	44	40
31	100	95	90	85	80	76	72	67	63	59	55	52	49	45	42
32	100	95	90	85	80	78	71	67	63	59	55	51	47	44	40
33	100	95	90	85	80	78	72	68	63	60	56	52	49	45	42
34	100	95	90	86	81	77	73	68	64	60	57	53	50	46	43
35	100	95	90	86	81	77	73	69	65	61	58	54	51	47	44
36	100	95	91	86	82	78	74	70	66	62	59	55	52	48	45
37	100	95	91	87	82	78	74	71	67	63	60	56	53	50	47
38	100	96	91	87	83	79	75	72	68	64	60	57	54	51	48
39	100	96	91	87	83	79	75	72	68	65	61	58	55	52	49
40	100	96	92	88	84	80	76	73	69	66	62	59	56	53	50
41	100	96	92	88	84	80	77	73	70	66	63	60	57	54	51
42	100	96	92	88	84	81	77	74	70	67	64	61	58	55	52
43	100	96	93	88	85	81	77	74	71	68	65	62	59	56	53
44	100	96	93	89	85	81	78	75	71	68	65	62	60	57	54
45	100	96	93	89	85	82	78	75	72	69	66	63	60	58	55
46	100	96	93	89	85	82	79	76	73	70	67	64	61	58	56
47	100	96	93	89	86	82	79	76	73	70	67	65	62	59	57
48	100	96	93	89	86	83	80	77	74	71	68	65	63	60	58
49	100	96	93	90	86	83	80	77	74	71	68	66	63	61	58
50	100	97	93	90	87	83	80	77	75	72	69	66	64	61	59
51	100	97	93	90	87	84	81	78	75	72	70	67	64	62	60
52	100	97	93	90	87	84	81	78	76	73	70	68	65	63	60

TABLE VII,

For finding the relative humidity of the air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 27.7 inches—(continued).

Wet bulb t'	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT																	
	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16
23	24	20	16	13	10	7	4	1										
24	26	22	19	15	12	9	7	4	1									
25	28	24	21	18	15	12	9	6	3	1								
26	30	27	23	20	17	14	11	9	6	3	1							
27	32	28	25	23	19	16	14	11	8	6	3	1						
28	34	31	27	24	21	19	16	13	11	8	6	4	1					
29	35	32	29	26	23	21	18	15	13	11	8	6	4	2				
30	37	34	31	28	25	23	20	17	15	13	11	8	6	4	2			
31	39	36	33	30	27	25	22	20	17	15	13	11	9	7	5	3	1	
32	37	34	31	28	25	22	19	17	14	12	10	8	6	4				
33	38	35	32	29	26	24	21	19	16	14	12	10	8	6	4	2		
34	40	37	34	31	29	26	24	21	18	16	14	12	10	8	6	4	2	
35	41	38	35	33	30	27	25	23	20	18	16	14	12	10	8	6	4	2
36	43	40	37	34	32	29	27	24	22	20	18	16	14	12	10	8	6	4
37	44	42	39	36	33	31	28	26	24	22	20	18	16	13	12	10	8	6
38	45	42	40	37	35	32	30	28	25	23	21	19	17	15	13	11	10	8
39	46	44	41	39	36	33	31	29	27	24	23	21	19	17	15	13	11	10
40	47	45	42	40	37	35	33	31	28	26	24	22	20	18	17	15	13	11
41	48	46	44	41	39	36	34	32	30	28	26	24	22	20	18	16	15	13
42	49	47	45	42	40	37	35	33	31	29	27	25	23	21	19	18	16	15
43	50	48	46	43	41	38	36	34	32	30	28	26	24	23	21	19	18	16
44	51	49	47	44	42	40	38	36	33	31	30	28	26	24	22	21	19	18
45	52	50	48	45	43	41	39	37	35	33	31	29	27	25	24	22	21	19
46	53	51	49	46	44	42	40	38	36	34	32	30	28	27	25	24	22	21
47	54	52	50	47	45	43	41	39	37	35	33	31	30	28	27	25	24	22
48	55	53	51	48	46	44	42	40	38	36	34	33	31	29	28	26	25	23
49	56	54	51	49	47	45	43	41	39	37	35	34	32	30	29	27	26	24
50	57	54	52	50	48	46	44	42	40	38	36	35	33	32	30	29	27	26
51	57	55	53	51	49	47	45	43	41	39	37	36	34	33	31	30	29	27
52	58	56	54	51	50	48	46	44	42	40	38	37	35	34	32	31	29	28

TABLE VII,

For finding the relative humidity of the air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 27.7 inches—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																		
	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	
23																			
24																			
25																			
26																			
27																			
28																			
29																			
30																			
31																			
32																			
33																			
34																			
35	1																		
36	3	1																	
37	5	3	1																
38	7	5	3	2															
39	8	7	5	4	2	1													
40	10	9	7	6	4	3	2	1											
41	12	10	9	7	6	5	3	2	1										
42	13	12	10	9	8	6	5	4	3	2	1								
43	15	13	12	11	9	8	7	6	4	3	2	1							
44	16	15	13	12	11	9	8	7	6	5	4	3	2	1					
45	18	16	15	14	12	11	10	9	8	7	6	5	4	3	2	1	1		
46	19	18	16	15	14	12	11	10	9	8	7	6	5	4	3	2	1		
47	21	19	18	16	15	14	13	11	10	9	8	7	6	5	4	3	2		
48	23	20	19	18	17	15	14	13	12	11	10	9	8	7	6	5	4	3	
49	23	22	20	19	18	17	15	14	13	12	11	10	9	8	7	6	5	5	
50	24	23	22	20	19	18	17	16	14	13	12	11	10	9	8	7	7	6	
51	26	24	23	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	
52	27	25	24	23	21	20	19	18	17	16	15	14	13	12	11	10	9	9	

TABLE VII,

For finding the relative humidity of the air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 27.7 inches—(continued).

Wet bulb #.	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.														
	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7
53	100	97	93	90	87	84	81	79	76	73	71	68	66	64	61
54	100	97	94	91	88	85	82	79	76	74	71	69	66	64	63
55	100	97	94	91	88	85	82	79	77	74	73	69	67	65	63
56	100	97	94	91	88	85	82	80	77	75	72	70	67	65	63
57	100	97	94	91	88	85	83	80	78	75	73	70	68	66	64
58	100	97	94	91	88	86	83	80	78	76	73	71	68	66	64
59	100	97	94	91	89	86	83	81	78	76	73	71	68	67	65
60	100	97	94	91	89	86	83	81	79	76	74	72	69	67	65
61	100	97	94	92	89	86	84	81	79	77	74	72	70	68	66
62	100	97	94	92	89	86	84	81	79	77	75	73	71	68	66
63	100	97	94	92	89	87	84	82	79	77	75	73	71	68	67
64	100	97	95	92	89	87	84	82	80	78	75	73	71	68	67
65	100	97	95	92	90	87	85	82	80	78	76	74	71	69	68
66	100	97	95	92	90	87	85	83	80	78	76	74	71	70	68
67	100	97	95	92	90	87	85	83	81	79	76	74	72	70	68
68	100	97	95	92	90	88	85	83	81	79	77	75	73	71	69
69	100	97	95	93	90	88	86	83	81	79	77	75	73	71	69
70	100	97	95	93	90	88	86	84							
71	100	97	95	93	90	88	86	84	82	80	78	76	74	72	70
72	100	98	95	93	90	88	86	84	82	80	78	76	74	72	70
73	100	98	95	93	91	88	86	84	82	80	78	76	74	72	71
74	100	98	95	93	91	89	86	84	82	80	78	76	75	73	71
75	100	98	95	93	91	89	87	85	83	81	79	77	75	73	71
76	110	98	95	93	91	89	87	85	83	81	79	77	75	73	72
77	100	98	95	93	91	89	87	85	83	81	79	77	75	74	72
78	100	98	95	93	91	89	87	85	83	81	79	78	76	74	72
79	100	98	95	93	91	89	87	85	83	81	80	78	76	74	73
80	100	98	95	94	91	89	87	85	83	82	80	78	76	75	73
81	100	98	95	94	91	89	87	86	84	82	80	78	77	75	73
82	100	98	95	94	92	90	88	86	84	82	80	79	77	75	74

TABLE VII,

For finding the relative humidity of the air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 27.7 inches—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																	
	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16
53	59	57	55	52	50	49	47	45	43	41	39	38	36	35	33	32	30	29
54	59	57	55	53	51	49	47	45	44	42	40	39	37	36	34	33	32	30
55	60	58	56	54	52	50	48	46	45	43	41	40	38	37	35	34	32	31
56	61	59	57	55	53	51	49	47	46	44	42	41	39	38	36	35	33	32
57	61	59	57	55	54	52	50	48	46	45	43	41	40	38	37	36	34	33
58	62	60	58	56	54	52	51	49	47	45	44	42	41	39	38	37	35	34
59	63	61	59	57	55	53	51	50	48	46	45	43	42	40	39	37	36	35
60	63	61	59	57	55	54	52	50	49	47	45	44	43	41	39	38	37	36
61	64	62	60	58	56	54	53	51	49	48	46	45	43	42	40	39	38	36
62	64	62	60	58	56	55	53	52	50	48	47	45	44	42	41	40	38	37
63	65	63	61	59	57	56	54	52	50	49	48	46	44	43	42	41	39	38
64	65	63	61	60	58	56	54	52	51	50	48	47	45	44	43	41	40	39
65	66	64	62	60	58	57	55	53	52	50	49	47	46	45	44	42	41	39
66	66	64	62	61	59	57	55	53	52	51	49	48	47	45	44	43	41	40
67	67	65	63	61	59	58	56	55	53	52	50	49	47	46	45	43	42	41
68	67	65	63	62	60	58	56	55	54	52	51	49	48	47	45	44	43	42
69	68	66	64	62	60	59	57	56	54	53	51	50	49	47	46	45	44	42
70	68	66	64	63	61	59	58	56	55	53	52	50	49	48	47	45	44	43
71	68	66	65	63	61	60	58	57	55	54	52	51	50	48	47	46	45	43
72	69	67	65	63	62	60	59	57	56	54	53	52	50	49	48	46	44	41
73	69	67	66	64	63	61	59	58	56	55	53	52	51	49	48	47	46	45
74	69	68	66	64	63	61	60	58	57	55	54	53	52	50	49	47	46	45
75	70	68	67	65	63	62	60	59	57	56	54	53	52	51	49	48	47	46
76	70	68	67	65	64	62	61	59	58	56	55	54	53	51	50	49	47	46
77	70	69	67	65	64	62	61	60	58	57	55	54	53	52	50	49	48	47
78	71	69	68	66	64	63	61	60	58	57	56	55	54	52	51	50	49	47
79	71	69	68	66	65	63	62	60	59	58	56	55	54	53	51	50	49	48
80	71	70	68	66	65	64	63	61	59	58	57	55	54	53	52	51	50	48
81	71	70	69	67	65	64	63	61	60	58	57	56	55	53	52	51	50	49
82	72	70	69	67	65	64	63	62	60	59	57	56	55	54	53	52	51	49

TABLE VII,

For finding the relative humidity of the air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 27.7 inches—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																		
	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	
53	28	26	25	24	23	21	20	19	18	17	16	15	14	13	12	11	11	10	
54	29	27	26	25	24	22	21	20	19	18	17	16	15	14	13	13	12	11	
55	30	28	27	26	25	24	22	21	20	19	18	17	16	15	14	14	13	12	
56	31	29	28	27	26	25	23	22	21	20	19	18	17	16	15	14	13	13	
57	32	30	29	28	27	26	24	23	22	21	20	19	18	18	17	16	15	14	
58	33	31	30	29	28	27	25	24	23	22	21	20	19	19	18	17	16	15	
59	33	32	31	30	29	28	26	25	24	23	22	21	20	20	19	18	17	16	
60	34	33	32	31	29	28	27	26	25	24	23	22	21	21	20	19	18	17	
61	35	34	33	32	30	29	28	27	26	25	24	23	22	21	21	20	19	18	
62	36	35	34	32	31	30	29	28	27	26	25	24	23	22	22	21	20	19	
63	37	36	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20		
64	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	22	21	
65	38	37	36	35	34	33	31	30	30	29	28	27	26	25	24	23	22	22	
66	39	38	37	36	34	33	32	31	30	29	28	27	26	25	24	23	22	22	
67	40	39	37	36	35	34	33	32	31	30	29	28	27	26	26	25	24	23	
68	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	26	25	24	
69	41	40	39	38	37	36	35	33	33	32	31	30	29	28	27	26	26	25	
70	42	40	39	38	37	36	35	34	33	32	31	30	29	29	28	27	26	25	
71	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	
72	43	42	41	39	38	37	37	36	35	34	33	32	31	30	29	28	28	27	
73	44	42	41	40	39	38	37	36	35	34	34	33	32	31	30	29	28	27	
74	44	43	42	41	40	39	38	37	36	35	34	33	32	31	31	30	29	28	
75	45	44	43	41	40	39	38	38	36	35	35	34	33	32	31	30	29	29	
76	45	44	43	42	41	40	39	38	37	36	35	34	34	33	32	31	30	29	
77	46	45	44	43	42	40	40	39	38	37	36	35	34	33	32	32	31	30	
78	46	45	44	43	42	41	40	39	38	37	36	35	35	34	33	32	31	31	
79	47	46	45	44	43	42	41	40	39	38	37	36	35	34	34	33	32	31	
80	47	46	45	44	43	42	41	40	39	38	37	37	36	35	34	33	33	32	
81	48	47	46	45	44	43	42	41	40	39	38	37	36	35	35	34	33	32	
82	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	34	33	33	

TABLE VII,

For finding the relative humidity of the air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 27.7 inches—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																	
	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	30.5	31	31.5	32	32.5	33	33.5	34
48	3	2	1															
49	4	3	2	2	1													
50	5	4	3	3	2	2	1	1										
51	6	5	4	4	3	3	2	2	1	1								
52	8	7	7	6	5	4	4	3	3	2	2	1						
53	9	8	8	7	6	5	5	4	4	3	3	2	2	1	1			
54	10	9	9	8	7	6	6	5	5	4	4	3	3	2	2	1	1	
55	11	10	10	9	8	8	7	6	6	5	5	4	4	3	3	2	2	1
56	12	12	11	10	10	9	8	7	7	6	6	5	5	4	4	3	3	2
57	13	13	12	11	11	10	9	8	8	7	7	6	6	5	5	4	4	3
58	14	14	13	12	12	11	10	10	9	8	8	7	7	6	6	5	5	4
59	15	15	14	13	13	12	11	11	10	9	9	8	8	7	7	6	6	5
60	17	16	15	14	14	13	12	12	11	10	10	9	9	8	8	7	7	6
61	17	17	16	15	14	14	13	12	12	11	11	10	10	9	8	8	8	7
62	18	17	17	16	15	15	14	13	13	12	11	11	10	10	9	9	8	8
63	19	18	17	17	16	16	15	14	14	13	12	12	11	11	10	10	9	9
64	20	19	18	18	17	16	16	15	15	14	13	13	12	12	11	11	10	9
65	21	20	19	19	18	17	16	16	15	15	14	13	13	12	12	11	11	10
66	22	21	20	19	19	18	17	17	16	16	15	14	14	13	12	12	12	11
67	23	22	21	20	19	19	18	18	17	16	16	15	14	14	13	12	12	12
68	23	22	22	21	20	20	19	18	18	17	16	16	15	15	14	14	13	13
69	24	23	22	22	21	20	20	19	18	18	17	17	16	16	15	14	14	13
70	25	24	23	22	22	21	20	20	19	19	18	17	17	16	16	15	15	14
71	25	25	24	23	22	22	21	21	20	19	19	18	17	17	16	16	15	15
72	26	25	25	24	23	23	22	21	21	20	19	19	18	18	17	17	16	16
73	27	26	25	25	24	23	23	22	21	21	20	19	19	18	18	17	17	16
74	27	27	26	25	25	24	23	23	22	21	21	20	19	19	18	18	17	17
75	28	27	27	26	25	25	24	23	23	22	21	21	20	20	19	19	18	17
76	29	28	27	27	26	26	25	24	23	23	22	21	21	20	20	19	19	18
77	29	29	28	27	26	26	25	25	24	23	23	22	21	21	20	20	19	19
78	30	29	28	28	27	26	26	25	24	24	23	23	22	22	21	20	20	19
79	30	30	29	28	28	27	26	26	25	24	24	23	23	22	22	21	20	20
80	31	30	30	29	28	28	27	26	26	25	24	24	23	23	22	21	21	21
81	31	31	30	29	29	28	27	27	26	26	25	24	24	23	23	22	22	21
82	32	31	31	30	29	29	28	27	27	26	26	25	24	24	23	23	22	22

TABLE VII,

For finding the relative humidity of the air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 27.7 inches—(concluded).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																			
	34.5	35	35.5	36	36.5	37	37.5	38	38.5	39	39.5	40	40.5	41	41.5	42	42.5			
53																				
54																				
55	1																			
56	2	1	1																	
57	3	2	2	1	1	1														
58	4	3	3	2	2	1	1	1												
59	5	4	4	3	3	2	2	2	1	1										
60	6	5	5	4	4	3	3	3	2	2	2	1	1	1						
61	7	6	6	5	5	4	4	3	3	3	2	2	2	1	1	1				
62	7	7	6	6	6	5	5	4	4	3	3	3	2	2	1	1	1			
63	8	8	7	7	6	6	6	5	5	4	4	4	3	3	3	2	2			
64	9	9	8	8	7	7	7	6	6	5	5	5	4	4	3	3	3			
65	10	9	9	9	8	8	7	7	7	6	6	5	5	5	4	4	4			
66	11	10	10	9	9	8	8	8	7	7	7	6	6	5	5	5	4			
67	11	11	10	10	10	9	9	8	8	8	7	7	7	6	6	6	6	5		
68	12	12	11	11	11	10	10	9	9	8	8	8	7	7	7	6	6			
69	13	12	12	12	11	11	10	10	9	9	9	8	8	7	7	7	7			
70	14	13	13	12	12	11	11	10	10	9	9	9	8	8	8	8	7			
71	14	14	13	13	12	12	12	11	11	10	10	10	9	9	9	8	8			
72	15	15	14	14	13	13	12	12	11	11	11	10	10	10	9	9	9			
73	16	15	15	14	14	13	13	13	12	12	11	11	11	10	10	10	9			
74	16	16	15	15	14	14	14	13	13	12	12	11	11	11	10	10	10			
75	17	16	16	16	15	15	14	14	13	13	13	12	12	11	11	11	11			
76	18	17	17	16	16	15	15	14	14	14	13	13	12	12	12	11	11			
77	18	18	17	17	16	16	15	15	14	14	14	13	13	12	12	12	12			
78	19	18	18	17	17	17	16	16	15	15	14	14	14	13	13	13	12			
79	19	19	18	18	18	17	17	16	16	15	15	15	14	14	13	13	13			
80	20	20	19	19	18	18	17	17	16	16	16	15	15	14	14	14	13			
81	21	20	20	19	19	18	18	17	17	16	16	16	15	15	14	14	14			
82	21	21	20	20	19	19	18	18	17	17	17	16	16	15	15	15	14			

TABLE VIII,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 25.8 inches and in the latitude of 22°.

Wet bulb t'	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.														
	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7
23	'123	'118	'113	'107	'102	'091	'092	'087	'082	'077	'072	'067	'062	'057	'051
24	'128	'123	'118	'113	'108	'103	'098	'093	'087	'082	'077	'072	'067	'062	'057
25	'134	'129	'124	'119	'114	'108	'103	'098	'093	'088	'083	'078	'073	'068	'063
26	'140	'135	'130	'125	'120	'114	'109	'104	'099	'094	'089	'084	'079	'074	'069
27	'146	'141	'136	'131	'126	'121	'116	'110	'105	'100	'095	'090	'085	'080	'075
28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
29	'153	'148	'142	'137	'132	'127	'122	'117	'112	'107	'102	'096	'091	'086	'081
30	'159	'154	'149	'144	'139	'134	'129	'124	'119	'113	'108	'103	'098	'093	'088
31	'167	'161	'156	'151	'146	'141	'136	'131	'126	'120	'115	'110	'105	'100	'095
32	'174	'169	'164	'158	'153	'148	'143	'138	'133	'128	'123	'118	'112	'107	'102
33	'182	'176	'170	'165	'159	'153	'148	'142	'136	'131	'125	'120	'114	'108	'103
34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
35	'189	'183	'178	'172	'166	'161	'155	'149	'144	'138	'132	'127	'121	'116	'110
36	'197	'191	'185	'180	'174	'168	'163	'157	'151	'146	'140	'134	'129	'123	'117
37	'204	'199	'193	'187	'182	'176	'171	'165	'159	'154	'148	'142	'137	'131	'125
38	'211	'207	'201	'196	'190	'184	'178	'173	'167	'162	'156	'150	'145	'139	'133
39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
40	'218	'214	'208	'203	'197	'192	'186	'181	'175	'170	'164	'159	'153	'147	'142
41	'225	'220	'214	'209	'203	'197	'191	'185	'180	'174	'169	'163	'157	'151	'146
42	'232	'226	'220	'215	'209	'203	'197	'191	'185	'180	'174	'168	'162	'156	'150
43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
44	'239	'233	'227	'222	'216	'210	'205	'199	'193	'188	'182	'176	'171	'165	'159
45	'246	'243	'237	'231	'226	'220	'214	'208	'203	'197	'191	'186	'180	'174	'169
46	'253	'252	'247	'241	'235	'229	'224	'218	'212	'207	'201	'195	'190	'184	'178
47	'260	'252	'257	'251	'245	'240	'234	'228	'223	'217	'211	'205	'200	'194	'188
48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
49	'278	'273	'267	'261	'256	'250	'244	'238	'233	'227	'221	'216	'210	'204	'199
50	'289	'283	'278	'272	'266	'261	'255	'249	'243	'238	'232	'226	'221	'215	'209
51	'296	'295	'289	'283	'278	'272	'266	'260	'255	'249	'243	'238	'232	'226	'221
52	'304	'308	'300	'295	'289	'283	'277	'272	'266	'260	'255	'249	'243	'237	'232
53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
54	'312	'306	'300	'295	'289	'283	'277	'272	'266	'260	'255	'249	'243	'237	'232
55	'320	'318	'312	'306	'301	'295	'289	'283	'278	'272	'266	'261	'255	'249	'244
56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
57	'328	'324	'318	'312	'306	'301	'295	'289	'283	'278	'272	'266	'261	'255	'249
58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
59	'336	'330	'324	'319	'313	'307	'302	'296	'290	'284	'279	'273	'267	'262	'256
60	'344	'343	'337	'331	'326	'320	'314	'309	'303	'297	'291	'286	'290	'274	'268
61	'352	'356	'350	'345	'339	'333	'327	'322	'316	'310	'304	'299	'293	'287	'282
62	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
63	'360	'364	'364	'358	'352	'347	'341	'335	'329	'324	'318	'312	'306	'301	'295
64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
65	'368	'364	'358	'352	'346	'341	'335	'329	'324	'318	'312	'306	'301	'295	'290

TABLE VIII.

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 25.8 inches in the latitude of 22°—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																	
	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16
23	.046	.041	.036	.031	.026	.021	.016	.011	.006	.001								
24	.052	.047	.042	.037	.031	.026	.021	.016	.011	.006	.001							
25	.057	.052	.047	.042	.037	.032	.027	.022	.017	.012	.007	.001						
26	.063	.058	.053	.048	.043	.038	.033	.028	.023	.018	.012	.007	.002					
27	.070	.064	.059	.054	.049	.044	.039	.034	.029	.024	.019	.013	.008	.003				
28	.076	.071	.066	.061	.056	.051	.045	.040	.035	.030	.025	.020	.015	.010	.005			
29	.083	.078	.072	.067	.062	.057	.052	.047	.042	.037	.032	.026	.021	.016	.011	.006	.001	
30	.090	.085	.080	.075	.069	.064	.059	.054	.049	.044	.039	.033	.028	.023	.018	.013	.008	.003
31	.097	.092	.087	.082	.077	.071	.066	.061	.056	.051	.046	.041	.036	.030	.025	.020	.015	.010
32	.107	.091	.086	.080	.074	.069	.063	.058	.052	.046	.041	.035	.029	.024	.018	.012	.007	.001
33	.104	.099	.093	.087	.082	.076	.070	.065	.059	.053	.048	.042	.036	.031	.025	.020	.014	.008
34	.112	.106	.100	.095	.089	.084	.078	.072	.067	.061	.055	.050	.044	.038	.033	.027	.021	.016
35	.120	.114	.108	.103	.097	.091	.086	.080	.074	.069	.063	.057	.052	.046	.040	.035	.029	.023
36	.128	.122	.116	.111	.105	.099	.094	.088	.082	.077	.071	.065	.060	.054	.048	.043	.037	.031
37	.136	.130	.125	.119	.113	.108	.102	.096	.091	.085	.079	.074	.068	.062	.057	.051	.045	.040
38	.145	.139	.133	.128	.122	.116	.111	.105	.099	.094	.088	.082	.077	.071	.065	.060	.054	.048
39	.154	.148	.142	.137	.131	.125	.120	.114	.108	.103	.097	.091	.086	.080	.074	.069	.063	.057
40	.163	.157	.152	.146	.140	.135	.129	.123	.118	.112	.106	.101	.095	.089	.083	.078	.072	.066
41	.173	.167	.161	.156	.150	.144	.138	.133	.127	.121	.116	.110	.104	.099	.093	.087	.082	.076
42	.183	.177	.171	.166	.160	.154	.148	.143	.137	.131	.126	.120	.114	.109	.103	.097	.092	.086
43	.193	.187	.182	.176	.170	.164	.159	.153	.147	.142	.136	.130	.125	.119	.113	.107	.102	.096
44	.204	.198	.192	.186	.181	.175	.169	.164	.158	.152	.147	.141	.135	.129	.124	.118	.112	.107
45	.215	.209	.203	.198	.192	.186	.180	.175	.169	.163	.158	.152	.146	.141	.135	.129	.123	.118
46	.226	.220	.215	.209	.203	.197	.192	.186	.180	.175	.169	.163	.158	.152	.146	.140	.135	.129
47	.238	.232	.226	.221	.215	.209	.204	.198	.192	.186	.181	.175	.169	.163	.158	.152	.146	.141
48	.250	.244	.239	.233	.227	.221	.216	.210	.204	.199	.193	.187	.181	.176	.170	.164	.159	.153
49	.263	.257	.261	.246	.240	.234	.228	.223	.217	.211	.205	.200	.194	.188	.183	.177	.171	.165
50	.276	.270	.264	.269	.253	.247	.241	.236	.230	.224	.218	.213	.207	.201	.196	.190	.184	.178
51	.289	.284	.278	.272	.266	.261	.255	.249	.243	.238	.233	.226	.220	.215	.209	.203	.197	.192
52	.303	.297	.292	.286	.280	.275	.269	.263	.257	.252	.246	.240	.234	.229	.223	.217	.211	.206

TABLE VIII,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 25.8 inches and in the latitude of 22°—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																		
	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	
23																			
24																			
25																			
26																			
27																			
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
28																			
29																			
30																			
31	·005																		
32																			
33	·008																		
34	·010	·004																	
35	·018	·012	·007																
36	·028	·020	·014	·000	·003														
37	·034	·028	·023	·017	·011	·008													
38	·043	·037	·031	·026	·020	·014	·009	·003											
39	·052	·046	·040	·035	·029	·023	·017	·012	·006										
40	·061	·055	·049	·044	·038	·032	·027	·021	·015	·010	·004								
41	·070	·065	·059	·053	·048	·042	·036	·030	·025	·019	·013	·008	·002						
42	·080	·075	·069	·063	·057	·052	·046	·040	·035	·029	·023	·018	·012	·008					
43	·090	·085	·079	·073	·068	·062	·056	·050	·045	·039	·033	·028	·022	·016	·011	·005			
44	·101	·095	·090	·084	·078	·072	·067	·061	·055	·050	·044	·038	·032	·027	·021	·015	·010	·004	
45	·112	·106	·101	·095	·089	·084	·078	·072	·066	·061	·055	·049	·044	·038	·032	·026	·021	·015	
46	·123	·118	2	·106	·100	·095	·089	·083	·078	·072	·066	·060	·055	·049	·043	·038	·032	·026	
47	·135	·129	·123	·118	·112	·106	·101	·095	·089	·083	·078	·072	·066	·061	·055	·049	·043	·038	
48	·147	·141	·136	·130	·124	·118	·113	·107	·101	·096	·090	·084	·078	·073	·067	·061	·055	·050	
49	·160	·154	·148	·142	·137	·131	·125	·120	·114	·108	·102	·097	·091	·085	·079	·074	·068	·062	
50	·173	·167	·161	·155	·150	·144	·138	·132	·127	·121	·115	·110	·104	·098	·092	·087	·081	·075	
51	·186	·180	·174	·169	·163	·157	·152	·146	·140	·134	·129	·123	·117	·111	·106	·100	·094	·088	
52	·200	·194	·188	·183	·177	·171	·165	·160	·154	·148	·142	·137	·131	·125	·119	·114	·108	·102	

TABLE VIII,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 25.8 inches and in the latitude of 22°—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																	
	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	30.5	31	31.5	32	32.5	33	33.5	34
23																		
24																		
25																		
26																		
27																		
28																		
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36																		
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38																		
39																		
40																		
41																		
42																		
43																		
44																		
45	.009	.004																
46	.020	.015	.009	.003														
47	.032	.026	.021	.015	.009	.003												
48	.044	.038	.033	.027	.021	.015	.010	.004										
49	.057	.051	.046	.039	.034	.028	.022	.016	.011	.005								
50	.069	.064	.058	.052	.046	.041	.035	.029	.024	.018	.012	.006	.001					
51	.083	.077	.071	.065	.060	.054	.048	.042	.037	.031	.025	.020	.014	.008	.002			
52	.096	.091	.085	.079	.073	.068	.062	.056	.050	.045	.039	.033	.027	.022	.016	.010	.005	

TABLE VIII,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry and wet bulb thermometers, at the mean barometric pressure of 25.8 inches and in the latitude of 22°—(continued).

Wet bulb t' .	VALUES OF $t - t'$ IN DEGREES, FAHRENHEIT.														
	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7
53	'404	'398	'392	'387	'381	'375	'369	'361	'355	'352	'346	'341	'335	'329	'323
54	'419	'413	'407	'401	'396	'390	'384	'378	'373	'367	'361	'355	'350	'344	'338
55	'431	'428	'423	'417	'411	'405	'400	'394	'388	'382	'377	'371	'365	'359	'354
56	'450	'444	'439	'433	'427	'421	'416	'410	'404	'398	'392	'387	'381	'375	'369
57	'467	'461	'455	'449	'444	'438	'432	'426	'421	'415	'409	'403	'397	'392	'386
58	'491	'478	'472	'466	'461	'455	'449	'443	'437	'432	'426	'420	'414	'408	'403
59	'501	'495	'490	'484	'478	'472	'466	'461	'455	'449	'443	'438	'432	'426	'420
60	'519	'514	'508	'502	'496	'490	'485	'479	'473	'467	'461	'456	'450	'444	'438
61	'538	'532	'526	'521	'515	'509	'503	'497	'492	'486	'480	'474	'468	'463	'457
62	'557	'551	'546	'540	'534	'528	'522	'517	'511	'505	'499	'493	'488	'482	'476
63	'577	'571	'566	'560	'554	'548	'542	'537	'531	'525	'519	'513	'508	'502	'496
64	'598	'592	'586	'580	'574	'569	'563	'557	'551	'545	'540	'534	'528	'522	'516
65	'610	'613	'607	'601	'596	'590	'584	'578	'572	'566	'561	'555	'549	'543	'537
66	'641	'635	'629	'623	'617	'612	'606	'600	'594	'588	'582	'577	'571	'565	'559
67	'663	'657	'651	'646	'640	'634	'628	'623	'617	'611	'605	'599	'593	'587	'582
68	'686	'680	'675	'669	'663	'657	'651	'645	'640	'634	'628	'622	'616	'611	'605
69	'710	'704	'699	'693	'687	'681	'675	'669	'663	'658	'652	'646	'640	'634	'628
70	'735	'729	'723	'717	'711	'706	'700	'694	'688	'682	'676	'671	'665	'659	'653
71	'760	'754	'749	'743	'737	'731	'725	'719	'713	'708	'702	'696	'690	'684	'678
72	'786	'781	'775	'769	'763	'757	'751	'745	'740	'734	'728	'722	'716	'710	'704
73	'813	'807	'802	'796	'790	'784	'778	'772	'766	'761	'755	'749	'743	'737	'731
74	'841	'835	'829	'823	'818	'812	'806	'800	'794	'788	'782	'777	'771	'765	'759
75	'870	'864	'858	'853	'846	'840	'834	'829	'823	'817	'811	'805	'799	'793	'787
76	'899	'893	'887	'881	'876	'870	'864	'858	'852	'846	'840	'834	'829	'823	'817
77	'929	'923	'918	'912	'906	'900	'894	'888	'882	'876	'870	'865	'859	'853	'847
78	'960	'955	'949	'943	'937	'931	'925	'919	'913	'908	'902	'896	'890	'884	'878
79	'993	'987	'981	'975	'969	'963	'957	'951	'946	'940	'934	'928	'922	'916	'910
80	1.028	1.020	1.014	1.008	1.002	996	990	984	978	973	967	961	955	949	943
81	1.060	1.054	1.048	1.042	1.036	1.030	1.024	1.018	1.012	1.007	1.001	995	989	983	977
82	1.095	1.089	1.083	1.077	1.071	1.065	1.059	1.053	1.047	1.041	1.036	1.030	1.024	1.018	1.013

TABLE VIII,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 25.8 inches and in the latitude of 22°—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																	
	75	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16
53	.318	.312	.306	.300	.295	.289	.283	.277	.272	.266	.260	.254	.249	.243	.237	.231	.226	.220
54	.332	.327	.321	.315	.309	.304	.298	.292	.286	.281	.275	.269	.263	.258	.252	.246	.240	.235
55	.346	.342	.336	.331	.325	.319	.313	.307	.302	.296	.290	.284	.279	.273	.267	.261	.256	.250
56	.364	.358	.352	.346	.341	.335	.329	.323	.318	.312	.306	.300	.294	.289	.283	.277	.271	.266
57	.380	.374	.369	.363	.357	.351	.345	.340	.334	.328	.322	.317	.311	.305	.299	.294	.288	.282
58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
59	.397	.391	.385	.380	.374	.368	.362	.357	.351	.345	.339	.333	.328	.322	.316	.310	.305	.299
60	.414	.409	.403	.397	.391	.386	.380	.374	.368	.362	.357	.351	.345	.339	.334	.328	.322	.316
61	.433	.427	.421	.415	.408	.404	.398	.392	.386	.380	.375	.369	.363	.357	.352	.346	.340	.334
62	.451	.445	.440	.434	.428	.422	.416	.411	.405	.399	.393	.387	.382	.376	.370	.364	.358	.353
63	.470	.464	.459	.453	.447	.441	.435	.430	.424	.418	.412	.406	.401	.395	.389	.383	.376	.372
64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
65	.490	.484	.479	.473	.467	.461	.455	.450	.444	.438	.432	.426	.421	.415	.409	.403	.397	.391
66	.511	.505	.499	.493	.487	.481	.476	.470	.464	.458	.452	.447	.441	.435	.429	.423	.418	.412
67	.532	.526	.520	.514	.508	.503	.497	.491	.485	.479	.473	.468	.462	.456	.450	.444	.439	.433
68	.553	.548	.542	.536	.530	.524	.518	.513	.507	.501	.495	.489	.484	.478	.472	.466	.460	.454
69	.576	.570	.564	.558	.552	.547	.541	.535	.529	.523	.518	.512	.506	.500	.494	.488	.483	.477
70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
71	.599	.593	.587	.581	.576	.570	.564	.558	.552	.546	.541	.535	.529	.523	.517	.511	.506	.500
72	.623	.617	.611	.605	.599	.593	.588	.582	.576	.570	.564	.558	.553	.547	.541	.535	.529	.523
73	.647	.641	.636	.630	.624	.618	.612	.606	.600	.595	.589	.583	.577	.571	.565	.560	.554	.548
74	.673	.667	.661	.655	.649	.643	.637	.632	.626	.620	.614	.608	.602	.597	.591	.585	.579	.573
75	.699	.693	.687	.681	.675	.669	.663	.658	.652	.646	.640	.634	.628	.623	.617	.611	.605	.599
76	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
77	.725	.720	.714	.708	.703	.696	.690	.684	.679	.673	.667	.661	.655	.649	.643	.638	.632	.626
78	.753	.747	.741	.736	.730	.724	.718	.712	.706	.700	.694	.689	.683	.677	.671	.665	.659	.653
79	.782	.776	.770	.764	.758	.752	.746	.741	.735	.729	.723	.717	.711	.705	.699	.694	.688	.682
80	.811	.805	.799	.793	.787	.782	.776	.770	.764	.758	.752	.746	.740	.735	.729	.723	.717	.711
81	.841	.835	.829	.823	.818	.812	.806	.800	.794	.788	.782	.776	.771	.765	.759	.753	.747	.741
82	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
83	.872	.866	.860	.855	.849	.843	.837	.831	.825	.819	.813	.807	.802	.796	.790	.784	.778	.772
84	.904	.898	.893	.887	.881	.875	.869	.863	.857	.851	.845	.839	.834	.828	.822	.816	.810	.804
85	.937	.931	.925	.919	.914	.908	.902	.896	.890	.884	.878	.872	.866	.861	.855	.849	.843	.837
86	1.008	1.000	.994	.988	.982	.977	.971	.965	.959	.953	.947	.941	.935	.929	.923	.917	.912	.906

TABLE VIII,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 25.8 inches and in the latitude of 22°—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																			
	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25		
53	214	209	203	197	191	185	180	174	168	162	157	151	145	139	134	128	122	116		
54	229	223	217	212	206	200	194	188	183	177	171	166	160	154	148	143	137	131		
55	244	238	233	227	221	215	210	204	198	192	187	181	175	169	163	158	152	146		
56	260	254	248	243	237	231	225	220	214	208	202	196	191	185	179	173	168	162		
57	276	270	265	259	253	247	242	236	230	224	219	213	207	201	195	190	184	178		
58	293	287	281	276	270	264	258	253	247	241	235	229	224	218	212	206	201	195		
59	310	305	299	293	287	281	276	270	264	258	253	247	241	235	229	224	218	212		
60	328	323	317	311	305	299	294	288	282	276	270	265	259	253	247	242	236	230		
61	347	341	335	329	324	318	313	306	300	295	290	283	277	272	266	260	254	248		
62	366	360	354	349	343	337	331	325	320	314	308	302	296	291	285	279	273	267		
63	386	380	374	368	362	357	351	345	339	333	328	322	316	310	304	298	293	287		
64	406	400	394	389	383	377	371	365	359	354	348	342	336	330	325	319	313	307		
65	427	421	415	410	404	398	392	386	380	375	369	363	357	351	346	340	334	328		
66	449	443	437	431	425	420	414	408	402	396	390	385	379	373	367	361	356	350		
67	471	465	459	453	448	442	436	430	424	418	413	407	401	395	389	384	378	372		
68	491	488	482	476	471	465	459	453	447	441	436	430	424	418	412	406	401	395		
69	518	512	506	500	494	488	483	477	471	465	459	453	448	442	436	430	424	418		
70	542	536	530	525	519	513	507	501	495	490	484	478	472	466	460	454	449	443		
71	567	561	556	550	544	538	532	526	520	515	509	503	497	491	485	480	474	468		
72	593	587	582	576	570	564	558	552	546	541	535	529	523	517	511	505	500	494		
73	620	614	608	602	597	591	585	579	573	567	561	556	550	544	538	532	526	520		
74	648	642	636	630	624	618	612	607	601	595	589	583	577	571	565	560	554	548		
75	676	670	664	658	652	647	641	635	629	623	617	611	606	600	594	588	582	576		
76	705	699	693	688	682	676	670	664	658	652	646	641	635	629	623	617	611	605		
77	736	729	723	718	712	706	700	694	688	682	676	671	665	659	653	647	641	635		
78	766	760	754	749	743	737	731	725	719	713	707	702	696	690	684	678	672	666		
79	798	792	786	781	775	769	763	757	751	745	739	733	728	722	716	710	704	698		
80	831	825	819	813	807	802	796	790	784	778	772	766	760	754	749	743	737	731		
81	865	859	853	847	841	835	829	824	818	812	806	800	794	788	782	776	770	765		
82	900	894	888	882	876	870	864	858	852	847	841	835	829	823	817	811	805	799		

TABLE VIII,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 25.8 inches and in the latitude of 22° —(concluded).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																	
	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	30.5	31	31.5	32	32.5	33	33.5	34
53	'111	'105	'099	'093	'088	'082	'076	'070	'065	'059	'053	'047	'042	'036	'030	'024	'019	'013
54	'125	'119	'114	'108	'102	'096	'091	'085	'079	'073	'068	'062	'056	'050	'045	'039	'033	'027
55	'140	'135	'129	'123	'117	'112	'106	'100	'094	'089	'083	'077	'071	'066	'060	'054	'048	'043
56	'156	'150	'145	'139	'133	'127	'122	'116	'110	'104	'098	'093	'087	'081	'075	'070	'064	'058
57	'172	'167	'161	'155	'149	'144	'138	'132	'126	'120	'115	'109	'103	'097	'092	'086	'080	'074
58	'188	'183	'177	'172	'166	'160	'154	'149	'143	'137	'131	'126	'120	'114	'108	'102	'097	'091
59	'206	'201	'195	'189	'183	'177	'172	'166	'160	'154	'149	'143	'137	'131	'125	'120	'114	'108
60	'224	'218	'213	'207	'201	'195	'189	'184	'178	'172	'166	'161	'155	'149	'143	'137	'132	'126
61	'243	'237	'231	'225	'219	'214	'208	'202	'196	'190	'185	'179	'173	'167	'161	'156	'150	'144
62	'262	'256	'250	'244	'238	'233	'227	'221	'215	'209	'204	'198	'192	'186	'180	'175	'169	'163
63	'281	'275	'270	'264	'258	'252	'246	'241	'235	'229	'223	'217	'212	'206	'200	'194	'188	'183
64	'301	'296	'290	'284	'278	'272	'267	'261	'255	'249	'243	'238	'232	'226	'220	'214	'208	'203
65	'322	'316	'311	'305	'299	'293	'287	'282	'276	'270	'264	'258	'253	'247	'241	'235	'229	'223
66	'344	'338	'332	'326	'321	'315	'309	'303	'297	'292	'286	'280	'274	'268	'262	'257	'251	'245
67	'366	'360	'354	'349	'343	'337	'331	'325	'319	'314	'308	'302	'296	'290	'285	'279	'273	'267
68	'389	'383	'377	'371	'366	'360	'354	'348	'342	'336	'331	'325	'319	'313	'307	'301	'296	'290
69	'413	'407	'401	'395	'389	'383	'378	'372	'366	'360	'354	'348	'343	'337	'331	'325	'319	'313
70	'437	'431	'425	'419	'414	'408	'402	'396	'390	'384	'379	'373	'367	'361	'355	'349	'343	'338
71	'462	'456	'450	'444	'439	'433	'427	'421	'415	'409	'404	'398	'392	'386	'380	'374	'368	'363
72	'488	'482	'476	'470	'464	'459	'453	'447	'441	'435	'429	'424	'418	'412	'406	'400	'394	'388
73	'515	'509	'503	'497	'492	'485	'479	'474	'468	'462	'456	'450	'444	'438	'432	'427	'421	'415
74	'542	'536	'530	'524	'519	'513	'507	'501	'495	'489	'483	'478	'472	'466	'460	'454	'448	'442
75	'570	'564	'559	'553	'547	'541	'535	'529	'523	'517	'512	'506	'500	'494	'488	'482	'476	'471
76	'599	'594	'589	'582	'576	'570	'564	'558	'552	'547	'541	'535	'529	'523	'517	'511	'505	'500
77	'629	'624	'618	'612	'606	'600	'594	'588	'582	'576	'571	'565	'559	'553	'547	'541	'535	'529
78	'660	'655	'649	'643	'637	'631	'625	'619	'613	'607	'601	'596	'590	'584	'578	'572	'566	'560
79	'692	'686	'680	'675	'669	'663	'657	'651	'645	'639	'633	'627	'622	'616	'610	'604	'598	'592
80	'725	'719	'713	'707	'701	'695	'690	'684	'678	'672	'666	'660	'654	'648	'642	'636	'631	'625
81	'759	'753	'747	'741	'735	'729	'723	'717	'711	'706	'700	'694	'688	'682	'676	'670	'664	'658
82	'793	'787	'782	'776	'770	'764	'758	'752	'746	'740	'734	'728	'722	'717	'711	'705	'700	'693

TABLE IX,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 25.8 inches.

Wet bulb t'	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.														
	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7
23	100	94	88	82	78	71	66	61	56	52	47	43	39	35	31
24	100	94	88	83	77	72	67	62	57	53	48	44	40	36	33
25	100	94	88	83	78	73	68	63	58	54	50	46	42	38	35
26	100	94	89	83	78	73	68	64	59	55	51	47	44	40	36
27	100	94	89	84	79	74	69	65	60	56	52	49	45	42	38
28	100	94	89	84	79	75	70	66	62	58	54	50	46	43	40
29	100	94	89	84	80	75	71	67	63	59	55	51	48	44	41
30	100	94	89	85	80	78	72	68	64	60	56	52	49	46	43
31	100	95	90	85	81	76	72	68	65	61	57	54	51	47	44
32	100	95	90	85	81	77	73	69	64	60	56	53	50	46	43
33	100	95	90	86	81	77	73	69	65	61	57	54	51	48	44
34	100	95	90	86	82	78	74	70	66	62	58	55	52	49	46
35	100	95	91	86	82	78	74	70	67	63	59	56	53	50	47
36	100	95	91	87	83	79	75	71	67	64	60	57	54	51	48
37	100	95	91	87	83	79	75	72	68	65	61	58	55	52	49
38	100	95	91	87	83	79	76	72	69	65	62	59	56	53	50
39	100	95	91	87	84	80	76	73	69	66	63	60	57	54	51
40	100	96	92	88	84	80	77	73	70	67	64	61	58	55	52
41	100	96	92	88	85	81	77	74	71	68	65	62	59	56	53
42	100	96	92	88	85	81	78	74	71	68	65	62	60	57	54
43	100	96	92	88	85	81	78	75	72	69	66	63	60	57	55
44	100	96	92	89	85	82	79	75	72	69	66	64	61	58	55
45	100	96	92	89	86	82	79	76	73	70	67	64	62	59	56
46	100	96	92	89	86	83	80	76	73	71	68	65	62	60	57
47	100	96	93	89	86	83	80	77	74	71	68	66	63	61	58
48	100	96	93	90	86	88	80	77	75	71	69	66	64	61	59
49	100	96	93	90	87	84	81	78	75	72	69	67	65	62	60
50	100	96	93	90	87	84	81	78	75	72	70	67	65	63	61
51	100	97	93	90	87	84	81	78	76	73	70	68	66	64	61
52	100	97	93	90	87	85	83	79	76	73	71	68	66	64	63

TABLE IX,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 25.8 inches—(continued).

Wet bulb t'	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																		
	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	
23	27	24	20	17	14	11	8	5	2										
24	29	26	22	19	16	13	10	8	5	3									
25	31	28	24	21	18	16	13	10	8	5	3	1							
26	33	29	26	23	20	18	15	13	10	8	5	3	1						
27	35	31	28	25	22	20	17	15	12	10	8	5	3	1					
28	36	33	30	27	24	22	19	17	14	12	10	8	6	4	2				
29	38	35	32	29	26	24	21	19	16	14	12	10	8	6	4	2			
30	40	37	34	31	28	26	23	21	18	16	14	12	10	8	6	4	2	1	
31	41	38	35	33	30	28	25	23	20	18	16	14	12	10	8	6	4	3	
32	40	37	34	31	28	26	23	21	18	16	14	12	10	8	6	4	2		
33	41	38	35	33	30	27	25	22	20	18	16	14	12	10	8	6	4	3	
34	43	40	37	34	31	29	26	24	22	20	18	16	14	11	10	8	6	4	
35	44	41	38	35	33	30	28	25	23	21	19	17	15	13	11	10	8	6	
36	45	42	39	37	34	32	30	27	25	23	21	19	17	15	13	11	10	8	
37	46	43	41	38	36	33	31	29	27	24	22	20	19	17	15	13	11	10	
38	47	45	42	39	37	35	32	30	28	26	24	22	20	18	17	15	13	11	
39	48	46	43	41	38	36	34	32	29	27	26	24	22	20	18	17	15	12	
40	49	47	44	42	40	37	35	33	31	29	27	25	23	21	20	18	16	13	
41	50	48	45	43	41	39	36	34	32	30	28	26	25	23	21	19	18	14	
42	51	49	46	44	42	40	38	36	34	31	30	28	26	24	23	21	19	15	
43	52	50	47	45	43	41	39	37	35	33	31	29	27	25	24	23	21	19	
44	53	51	48	46	44	42	40	38	36	34	32	30	28	27	25	24	22	21	
45	54	53	49	47	45	43	41	39	37	35	33	31	30	28	27	25	24	22	
46	55	53	50	48	46	44	42	40	38	36	34	33	31	29	28	26	25	23	
47	56	53	51	49	47	45	43	41	39	37	35	34	32	30	29	27	26	24	
48	57	54	52	50	48	46	44	42	40	38	36	35	33	32	30	29	27	26	
49	58	55	53	51	49	47	45	43	41	39	37	36	34	33	31	30	28	27	
50	59	56	54	52	50	48	46	44	42	40	38	37	35	34	32	31	29	28	
51	59	57	55	53	51	49	47	45	43	41	39	38	36	35	33	32	30	29	
52	60	57	55	53	51	49	48	46	44	42	40	38	37	36	34	33	31	29	

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TABLE IX,

For finding the Relative Humidity of the Air from the readings of the dry and wet bulb thermometers, at the mean barometric pressure of 25.8 inches—(continued).

Wet bulb t. ¹	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																		
	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	
28																			
29																			
30																			
31	1																		
32																			
33	1																		
34	2	1																	
35	4	3	1																
36	6	5	3	2	1														
37	8	7	5	4	3	1													
38	10	9	7	6	4	3	2	1											
39	12	10	9	7	6	5	4	2	1										
40	13	12	11	9	8	7	5	4	3	2	1								
41	15	13	12	11	9	8	7	6	5	3	2	1							
42	16	15	13	12	11	9	8	7	6	5	4	3	2	1					
43	18	16	15	14	12	11	10	9	8	7	6	5	4	3	2	1			
44	19	18	16	15	14	13	11	10	9	8	7	6	5	4	3	2	1		
45	21	19	18	16	15	14	13	12	10	9	8	7	7	6	5	4	3	2	
46	22	20	19	18	16	15	14	13	12	11	10	9	8	7	6	5	4	3	
47	23	21	20	19	18	17	15	14	13	12	11	10	9	8	7	6	5	4	
48	24	23	21	20	19	18	17	16	15	14	13	11	10	9	8	7	6	5	
49	25	24	23	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	
50	26	25	24	23	21	20	19	18	17	16	15	14	13	12	11	10	9	8	
51	27	26	25	24	22	21	20	19	18	17	16	15	14	13	12	11	10	9	
52	29	27	26	25	23	22	21	20	19	18	17	16	15	14	13	12	11	10	

TABLE IX,

For finding the Relative Humidity of the Air from the readings of the dry and wet bulb thermometers, at the mean barometric pressure of 25.8 inches—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																	
	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	30.5	31	31.5	32	32.5	33	33.5	34
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
32																		
33																		
34																		
35																		
36																		
37																		
38																		
39																		
40																		
41																		
42																		
43																		
44																		
45	1	1																
46	3	2	1	1														
47	4	3	3	2	1	1												
48	5	5	4	3	2	2	1	1										
49	7	6	5	4	4	3	2	2	1	1								
50	8	7	6	6	5	4	3	3	2	2	1	1						
51	9	8	7	7	6	5	4	4	3	3	2	2	1	1				
52	10	9	8	8	7	7	6	5	5	4	4	3	2	2	1	1		

TABLE IX.

For finding the Relative Humidity of the Air from the readings of the dry and wet bulb thermometers, at the mean barometric pressure of 25.8 inches—(continued).

Wet bulb t'	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.														
	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7
53	100	97	94	91	88	85	82	79	77	74	71	69	67	65	63
54	100	97	94	91	88	85	82	79	77	74	72	69	67	65	63
55	100	97	94	91	88	85	83	80	77	75	72	70	68	66	63
56	100	97	94	91	88	86	83	80	78	75	73	71	68	66	64
57	100	97	94	91	88	86	83	80	78	76	73	71	69	67	65
58	100	97	94	91	89	86	83	81	78	76	74	72	69	67	65
59	100	97	94	92	89	86	84	81	79	77	74	72	70	68	66
60	100	97	94	92	89	87	84	81	79	77	75	73	70	68	66
61	100	97	94	92	89	87	84	82	79	77	75	73	71	69	67
62	100	97	94	92	89	87	84	82	80	78	76	73	71	69	67
63	100	97	94	92	90	87	85	83	80	78	76	74	72	70	68
64	100	97	94	92	90	87	85	83	80	78	76	74	72	70	68
65	100	97	95	92	90	87	85	83	81	79	77	74	72	70	68
66	100	97	95	92	90	88	85	83	81	79	77	75	73	71	69
67	100	97	95	93	90	88	86	83	81	79	77	75	73	71	69
68	100	97	95	93	90	88	86	84	81	79	77	75	73	72	70
69	100	97	95	93	90	88	86	84	82	80	78	76	74	72	70
70	100	97	95	93	90	88	86	84	82	80	78	76	74	72	70
71	100	98	95	93	91	88	86	84	82	80	78	76	74	72	71
72	100	98	95	93	91	88	86	84	82	80	78	76	75	73	71
73	100	98	95	93	91	89	87	84	82	81	79	77	75	73	71
74	100	98	95	93	91	89	87	85	83	81	79	77	75	73	72
75	100	98	95	93	91	89	87	85	83	81	79	77	75	74	72
76	100	98	95	93	91	89	87	85	83	81	79	77	76	74	72
77	100	98	95	93	91	89	87	85	83	81	80	78	76	74	72
78	100	98	96	93	91	89	87	85	83	82	80	78	76	74	73
79	100	98	96	94	91	89	87	85	84	82	80	78	76	74	73
80	100	98	96	94	92	90	88	86	84	82	80	78	77	75	73
81	100	98	96	94	92	90	88	86	84	82	80	78	77	75	73
82	100	98	96	94	92	90	88	86	84	82	80	78	77	75	74

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TABLE IX,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 25.8 inches—(continued).

Wet bulb t'	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																	
	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16
53	60	58	56	54	52	50	48	47	45	43	41	40	38	37	35	34	32	31
54	61	59	57	55	53	51	49	47	46	44	42	41	39	38	36	35	33	32
55	61	59	57	55	53	52	50	48	46	45	43	41	40	38	37	36	34	33
56	62	60	58	56	54	52	51	49	47	45	44	42	40	39	38	37	35	34
57	62	60	58	56	55	53	51	49	48	46	44	43	41	40	39	37	36	35
58	63	61	59	57	55	54	52	50	48	47	45	43	42	41	39	38	37	36
59	64	62	60	58	56	54	52	51	49	48	46	45	43	42	40	39	37	36
60	64	62	60	58	57	55	53	51	50	48	47	45	44	42	41	40	38	37
61	65	63	61	59	57	56	54	52	51	49	47	46	44	43	42	40	39	38
62	65	63	61	59	58	56	55	53	51	50	48	47	45	44	42	41	40	39
63	66	64	62	60	58	57	55	54	52	50	49	48	46	45	43	42	41	39
64	66	64	62	60	59	57	56	54	53	51	50	48	47	45	44	43	41	40
65	67	65	63	61	59	58	56	55	53	52	50	49	47	46	45	43	42	41
66	67	65	63	61	60	58	57	55	54	52	51	49	48	47	45	44	43	42
67	68	66	64	62	60	59	57	56	54	53	51	50	49	47	46	45	44	43
68	68	66	64	62	61	59	58	56	55	53	52	51	49	48	46	45	44	43
69	68	66	65	63	61	60	58	57	55	54	52	51	50	48	47	46	45	43
70	69	67	65	63	62	60	59	57	56	54	53	52	50	49	48	46	45	44
71	69	67	65	64	62	61	59	58	56	55	53	52	51	50	48	47	46	45
72	69	68	66	64	63	61	60	58	57	55	54	53	51	50	49	47	46	45
73	70	68	66	65	63	62	60	59	57	56	54	53	52	51	49	48	47	46
74	70	68	67	65	63	62	61	59	58	56	55	54	52	51	50	48	47	46
75	70	69	67	65	64	62	61	60	58	57	55	54	53	51	50	49	48	47
76	70	69	67	66	64	63	61	60	59	57	56	55	53	52	50	49	48	47
77	71	69	68	66	65	63	62	60	59	58	56	55	54	52	51	50	49	48
78	71	70	68	66	65	64	62	61	59	58	57	55	54	53	51	50	49	48
79	71	70	68	67	65	64	63	61	60	58	57	56	55	53	52	51	50	49
80	71	70	69	67	66	64	63	62	60	59	57	56	55	54	52	51	50	49
81	72	70	69	67	66	65	63	62	61	59	58	56	55	54	53	52	51	50
82	72	71	69	68	66	65	64	62	61	60	58	57	56	55	53	52	51	50

TABLE IX,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 25.8 inches—(continued).

Wet bulb t'	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																		
	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	
53	30	28	27	26	24	23	22	21	20	19	18	17	16	15	15	14	13	12	
54	31	29	28	27	25	24	23	22	21	20	19	18	17	16	16	15	14	13	
55	32	30	29	28	26	25	24	23	22	21	20	19	18	17	17	16	15	14	
56	33	31	30	29	27	26	25	24	23	22	21	20	19	18	18	17	16	15	
57	33	32	31	30	28	27	26	25	24	23	22	21	20	19	19	18	17	16	
58	34	33	32	31	29	28	27	26	25	24	23	22	21	20	20	19	18	17	
59	35	34	33	32	30	29	28	27	26	25	24	23	22	21	21	20	19	18	
60	36	35	33	32	31	30	29	28	27	26	25	24	23	22	21	21	20	19	
61	37	36	34	33	32	31	30	29	28	27	26	25	24	23	22	22	21	20	
62	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	22	21	
63	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	22	
64	39	38	37	36	35	34	32	31	30	29	28	27	26	25	25	24	23	22	
65	40	38	37	36	35	34	33	32	31	30	29	28	27	26	25	25	24	23	
66	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	26	25	24	
67	41	40	39	38	36	35	34	33	32	31	30	29	28	27	26	26	25	25	
68	42	41	39	38	37	36	35	34	33	32	31	30	29	28	27	26	26	26	
69	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	28	27	26	
70	43	42	41	40	38	37	36	35	34	33	32	31	30	29	28	28	28	27	
71	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	28	28	
72	44	43	42	41	40	39	38	37	36	35	34	33	32	31	31	30	29	28	
73	45	43	42	41	40	39	38	37	36	35	35	34	33	32	31	30	29	29	
74	45	44	43	42	41	40	39	38	37	36	35	34	33	32	32	31	30	29	
75	46	45	44	42	41	40	39	38	38	37	36	35	34	33	32	32	31	30	
76	46	45	44	43	42	41	40	39	38	37	36	35	35	34	33	32	31	31	
77	47	46	45	44	43	42	41	40	39	38	37	36	35	34	34	33	32	31	
78	47	46	45	44	43	42	41	40	39	38	37	37	36	35	34	33	32	32	
79	48	47	46	45	44	43	42	41	40	39	38	37	36	35	35	34	33	32	
80	48	47	46	45	44	43	42	41	41	40	39	38	37	36	35	34	33	33	
81	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	33	
82	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	34	34	

TABLE IX,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 25.8 inches—(concluded).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																	
	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	30.5	31	31.5	32	32.5	33	33.5	34
53	12	11	10	9	8	8	7	6	6	5	5	4	4	3	3	2	2	1
54	13	12	11	10	10	9	8	8	7	6	6	5	5	4	4	3	3	2
55	14	13	12	11	11	10	9	9	8	7	7	6	6	5	5	4	4	3
56	15	14	13	12	12	11	10	10	9	8	8	7	7	6	6	5	5	4
57	16	15	14	13	13	12	11	11	10	9	9	8	8	7	7	6	6	5
58	17	16	15	14	14	13	12	12	11	10	10	9	9	8	8	7	7	6
59	17	17	16	15	14	14	13	12	12	11	11	10	10	9	9	8	8	7
60	18	18	17	16	15	15	14	13	13	12	12	11	11	10	10	9	8	8
61	19	18	18	17	16	16	15	14	14	13	13	12	11	11	10	9	9	9
62	20	19	18	18	17	16	16	15	15	14	13	13	12	12	11	11	10	10
63	21	20	19	19	18	17	17	16	16	15	14	14	13	12	12	11	11	10
64	21	21	20	20	19	18	18	17	16	16	15	15	14	13	13	12	12	11
65	22	22	21	20	20	19	18	18	17	16	16	15	15	14	14	13	12	12
66	23	22	22	21	20	20	19	18	18	17	16	16	15	15	14	13	13	13
67	24	23	22	22	21	20	20	19	19	18	17	17	16	16	15	14	14	13
68	25	24	23	22	22	21	20	20	19	19	18	17	17	16	16	15	14	14
69	25	25	24	23	23	22	21	20	20	19	19	18	18	17	16	16	15	15
70	26	25	25	24	23	23	22	21	21	20	19	19	18	18	17	16	16	16
71	26	26	25	25	24	23	23	22	21	21	20	19	19	18	18	17	17	16
72	27	27	26	25	24	24	23	23	22	21	21	20	19	19	18	18	17	17
73	28	27	27	26	25	24	24	23	23	22	21	21	20	20	19	19	18	18
74	28	28	27	26	26	25	24	24	23	23	22	21	21	20	20	19	19	18
75	29	28	28	27	26	26	25	24	24	23	23	22	21	21	20	20	19	19
76	30	29	28	28	27	26	26	25	24	24	23	23	22	21	21	20	20	19
77	30	30	29	28	28	27	26	26	25	24	24	23	23	22	21	21	20	20
78	31	30	29	29	28	27	27	26	26	25	24	24	23	23	22	21	21	20
79	31	31	30	29	29	28	27	27	26	25	25	24	24	23	23	22	22	21
80	32	32	31	30	29	29	28	27	27	26	25	25	24	24	23	23	22	22
81	33	32	31	30	30	29	29	28	27	27	26	25	25	24	24	23	23	22
82	33	33	32	31	30	30	29	28	28	27	26	26	25	25	24	24	23	23

TABLE X,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 28.4 inches and in the latitude of 22°.

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																		
	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9
15	.088	.082	.077	.073	.068	.063	.059	.054	.050	.045	.041	.036	.031	.027	.022	.018	.013	.008	.004
16	.090	.086	.081	.076	.072	.067	.063	.058	.053	.049	.044	.040	.035	.031	.026	.021	.017	.012	.008
17	.091	.090	.085	.080	.076	.071	.067	.062	.058	.053	.048	.044	.039	.035	.030	.025	.021	.016	.012
18	.093	.094	.089	.085	.080	.076	.071	.066	.062	.057	.053	.048	.043	.039	.034	.030	.026	.020	.016
19	.103	.098	.094	.089	.085	.080	.075	.071	.066	.062	.057	.052	.048	.043	.039	.034	.029	.025	.020
20	.108	.103	.098	.094	.089	.085	.080	.075	.071	.066	.062	.057	.052	.048	.043	.039	.034	.029	.025
21	.112	.108	.103	.099	.094	.089	.085	.080	.076	.071	.066	.062	.057	.053	.048	.043	.039	.034	.030
22	.117	.113	.108	.104	.099	.094	.090	.085	.081	.076	.071	.067	.062	.058	.053	.048	.044	.039	.034
23	.123	.118	.113	.109	.104	.100	.095	.090	.086	.081	.077	.072	.067	.063	.058	.053	.049	.044	.040
24	.128	.124	.119	.114	.110	.105	.100	.096	.091	.087	.082	.077	.073	.068	.064	.059	.054	.050	.045
25	.134	.129	.125	.120	.115	.111	.106	.102	.097	.092	.088	.083	.078	.074	.069	.065	.060	.055	.051
26	.140	.135	.131	.126	.121	.117	.112	.108	.103	.098	.094	.089	.084	.080	.075	.070	.066	.061	.057
27	.146	.141	.137	.132	.128	.123	.118	.114	.109	.104	.100	.095	.091	.086	.081	.077	.072	.067	.063
28	.153	.148	.143	.139	.134	.129	.125	.120	.116	.111	.106	.102	.097	.092	.088	.083	.078	.074	.069
29	.159	.155	.150	.145	.141	.136	.132	.127	.122	.118	.113	.108	.104	.099	.094	.090	.085	.081	.076
30	.166	.162	.157	.153	.148	.143	.139	.134	.129	.125	.120	.115	.111	.106	.102	.097	.092	.088	.083
31	.174	.160	.165	.160	.155	.151	.146	.141	.137	.132	.127	.123	.118	.113	.109	.104	.099	.095	.090
32	.182	.176	.171	.166	.161	.156	.151	.146	.141	.135	.130	.125	.120	.115	.110	.105	.100	.095	.089
33	.189	.184	.179	.173	.168	.163	.158	.153	.148	.143	.138	.133	.127	.122	.117	.112	.107	.102	.097
34	.197	.191	.186	.181	.176	.171	.166	.161	.155	.150	.145	.140	.135	.130	.125	.120	.114	.109	.104
35	.204	.199	.194	.189	.184	.179	.174	.168	.163	.158	.153	.148	.143	.138	.133	.127	.122	.117	.112
36	.213	.207	.202	.197	.192	.187	.182	.177	.171	.166	.161	.156	.151	.146	.141	.136	.130	.125	.120
37	.221	.216	.211	.206	.200	.195	.190	.185	.180	.175	.170	.165	.159	.154	.149	.144	.139	.134	.129
38	.230	.225	.219	.214	.209	.204	.199	.194	.189	.183	.178	.173	.168	.163	.158	.153	.147	.142	.137
39	.239	.234	.228	.223	.218	.213	.208	.203	.198	.193	.187	.182	.177	.172	.167	.162	.156	.151	.146
40	.246	.243	.238	.233	.228	.223	.217	.212	.207	.202	.197	.192	.186	.181	.176	.171	.166	.161	.155
41	.253	.253	.248	.243	.237	.232	.227	.222	.217	.211	.206	.201	.196	.191	.186	.180	.175	.170	.165
42	.268	.263	.258	.253	.247	.242	.237	.232	.227	.222	.216	.211	.206	.201	.196	.191	.186	.180	.175
43	.278	.273	.268	.263	.258	.252	.247	.242	.237	.232	.227	.221	.216	.211	.206	.201	.196	.190	.185
44	.289	.284	.279	.274	.268	.263	.258	.253	.248	.243	.237	.232	.227	.221	.216	.211	.206	.201	.196

TABLE X,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 23.4 inches and in the latitude of 22°—(continued).

Wet bulb t'	VALUES OF $t - t'$ IN DEGREES, FAHRENHEIT.																	
	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18
15																		
16	.003																	
17	.007	.002																
18	.011	.007	.002															
19	.016	.011	.006	.002														
20	.020	.016	.011	.006	.002													
21	.025	.020	.016	.011	.006	.002												
22	.030	.025	.021	.016	.011	.006	.002											
23	.035	.030	.026	.021	.017	.012	.007	.003										
24	.040	.036	.031	.027	.022	.017	.013	.008	.003									
25	.046	.041	.037	.032	.028	.023	.018	.014	.009	.004								
26	.052	.047	.043	.038	.034	.029	.024	.020	.015	.010	.006							
27	.058	.054	.049	.044	.040	.035	.030	.026	.021	.017	.013	.007						
28	.065	.060	.055	.051	.046	.041	.037	.032	.028	.023	.018	.014	.009	.004				
29	.071	.067	.062	.057	.053	.048	.043	.039	.034	.030	.025	.020	.016	.011	.006			
30	.078	.074	.069	.064	.060	.055	.050	.046	.041	.037	.032	.027	.023	.018	.013	.009	.004	
31	.086	.081	.076	.072	.067	.062	.058	.053	.048	.044	.039	.034	.030	.025	.021	.016	.011	.007
32	.084	.079	.074	.069	.064	.059	.054	.049	.043	.038	.033	.028	.023	.018	.013	.008	.003	
33	.092	.086	.081	.076	.071	.066	.061	.056	.051	.046	.040	.035	.030	.025	.020	.015	.010	.005
34	.089	.084	.089	.084	.079	.073	.068	.063	.058	.053	.048	.043	.038	.033	.027	.022	.017	.012
35	.107	.102	.097	.092	.086	.081	.076	.071	.066	.061	.056	.051	.045	.040	.035	.030	.025	.020
36	.115	.110	.105	.100	.094	.088	.084	.079	.074	.069	.064	.059	.053	.048	.043	.038	.033	.028
37	.123	.118	.113	.108	.103	.098	.093	.087	.082	.077	.072	.067	.062	.057	.051	.046	.041	.036
38	.132	.127	.122	.117	.111	.106	.101	.096	.091	.086	.081	.075	.070	.065	.060	.055	.050	.045
39	.141	.136	.131	.126	.120	.115	.110	.105	.100	.095	.090	.084	.079	.074	.069	.064	.059	.053
40	.150	.145	.140	.135	.130	.125	.119	.114	.109	.104	.099	.094	.089	.083	.078	.073	.068	.063
41	.160	.155	.150	.144	.139	.134	.129	.124	.119	.113	.108	.103	.098	.093	.088	.083	.077	.072
42	.170	.165	.160	.154	.149	.144	.139	.134	.129	.123	.118	.113	.108	.103	.098	.093	.087	.082
43	.180	.175	.170	.165	.159	.154	.149	.144	.139	.134	.128	.123	.118	.113	.108	.103	.097	.092
44	.191	.186	.180	.175	.170	.166	.160	.155	.149	.144	.139	.134	.129	.124	.118	.113	.108	.103

TABLE X,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 28.4 inches and in the latitude of 22°—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																		
	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9
45	300	295	290	285	280	274	269	264	259	254	249	243	238	233	228	223	218	212	207
46	312	307	301	296	291	286	281	275	270	265	260	255	250	244	239	234	229	224	218
47	324	318	313	308	303	298	292	287	282	277	272	266	261	256	251	246	241	235	230
48	336	331	325	320	315	310	305	300	294	289	284	279	274	268	263	258	253	248	242
49	349	343	338	333	328	323	317	312	307	302	297	291	286	281	276	271	265	260	255
50	362	357	351	346	341	336	331	325	320	315	310	305	300	294	289	284	279	273	268
51	375	370	365	360	354	349	344	339	334	328	323	318	313	308	302	297	293	287	282
52	388	384	379	374	368	363	358	353	348	342	337	332	327	322	316	311	306	301	296
53	404	399	393	388	383	378	372	367	362	357	352	346	341	336	331	326	320	315	310
54	419	413	408	403	398	393	387	382	377	372	367	361	356	351	346	340	335	330	325
55	434	429	421	418	413	408	403	398	392	387	382	377	371	366	361	356	351	345	340
56	450	445	440	434	429	424	419	413	408	403	398	393	387	382	377	372	366	361	356
57	467	461	456	451	446	440	435	430	425	420	414	409	404	399	393	388	383	378	372
58	484	478	473	468	463	457	452	447	442	436	431	426	421	415	410	405	400	395	389
59	501	496	491	485	480	475	470	464	459	454	449	443	438	433	428	422	417	412	407
60	519	514	509	504	498	493	488	483	477	472	467	462	456	451	446	441	435	430	425
61	538	533	527	522	517	512	506	501	496	491	485	480	475	470	464	459	454	449	443
62	557	552	547	541	536	531	526	520	515	510	505	500	494	489	484	478	473	468	463
63	577	572	567	561	556	551	546	540	535	530	525	519	514	509	503	498	493	488	482
64	598	592	587	582	577	571	566	561	555	550	545	540	534	529	524	519	513	508	503
65	619	613	608	603	598	592	587	582	577	571	566	561	555	550	545	540	534	529	524
66	641	635	630	625	619	614	609	604	598	593	587	582	577	571	566	561	555	550	545
67	663	658	653	647	642	637	631	626	621	616	610	605	600	594	589	584	579	573	568
68	686	681	676	670	665	660	655	649	644	639	633	628	623	618	612	607	602	596	591
69	710	705	700	694	689	684	678	673	668	662	657	652	647	641	636	631	625	620	615
70	735	730	724	719	714	708	703	698	692	687	682	677	671	666	661	655	650	645	639
71	760	755	750	744	739	734	728	723	718	712	707	702	697	691	686	681	675	670	665
72	788	781	776	770	765	760	755	749	744	739	733	728	723	717	712	706	701	696	691
73	813	808	803	797	792	787	781	776	771	765	760	755	749	744	739	733	728	723	718
74	841	836	830	825	820	814	809	804	798	793	788	783	777	772	767	761	756	750	745
75	870	864	859	854	848	843	838	832	827	822	816	811	806	800	795	790	784	779	774

TABLE X,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry and wet bulb thermometers, at the mean barometric pressure of 23.4 inches and in the latitude of 22°—(concluded).

Wet bulb °.	VALUES OF $t - t'$ IN DEGREES, FAHRENHEIT.																		
	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18	
45	·202	·197	·192	·188	·181	·176	·171	·166	·161	·155	·150	·145	·140	·135	·130	·124	·119	·114	
46	·213	·208	·203	·198	·193	·187	·182	·177	·172	·167	·161	·156	·151	·146	·141	·136	·130	·125	
47	·225	·220	·215	·209	·204	·199	·194	·189	·184	·178	·173	·168	·163	·158	·152	·147	·142	·137	
48	·237	·232	·227	·222	·216	·211	·206	·201	·196	·191	·185	·180	·175	·170	·165	·160	·154	·149	
49	·250	·245	·240	·234	·229	·224	·219	·214	·209	·203	·199	·193	·188	·182	·177	·172	·167	·162	
50	·263	·258	·253	·247	·242	·237	·232	·227	·222	·216	·211	·206	·201	·195	·190	·185	·180	·175	
51	·276	·271	·266	·261	·256	·250	·245	·240	·235	·230	·224	·219	·214	·209	·204	·198	·193	·188	
52	·289	·285	·280	·275	·269	·264	·259	·254	·249	·243	·238	·233	·228	·223	·217	·212	·207	·202	
53	·305	·299	·294	·289	·284	·279	·273	·268	·263	·258	·253	·247	·242	·237	·232	·226	·221	·216	
54	·320	·314	·309	·304	·300	·293	·288	·283	·278	·273	·267	·262	·257	·252	·246	·241	·236	·231	
55	·335	·333	·324	·319	·314	·309	·304	·298	·293	·288	·283	·277	·272	·267	·262	·257	·251	·246	
56	·351	·346	·340	·335	·330	·325	·319	·314	·309	·304	·298	·293	·288	·283	·278	·272	·267	·262	
57	·367	·362	·357	·351	·346	·341	·336	·331	·325	·320	·315	·310	·304	·299	·294	·289	·283	·278	
58	·384	·379	·374	·368	·363	·358	·353	·347	·342	·337	·332	·326	·321	·316	·311	·305	·300	·295	
59	·402	·396	·391	·386	·381	·375	·370	·365	·360	·354	·349	·344	·339	·333	·328	·323	·318	·312	
60	·420	·414	·409	·404	·399	·393	·388	·383	·378	·372	·367	·362	·357	·351	·346	·341	·339	·330	
61	·438	·433	·428	·422	·417	·412	·407	·401	·396	·391	·386	·380	·375	·370	·365	·359	·354	·349	
62	·457	·452	·447	·442	·436	·431	·426	·420	·415	·410	·405	·400	·394	·389	·384	·378	·373	·368	
63	·477	·472	·467	·461	·456	·451	·446	·440	·435	·430	·425	·419	·414	·409	·403	·398	·393	·388	
64	·498	·492	·487	·482	·476	·471	·466	·461	·455	·450	·445	·440	·434	·429	·424	·418	·413	·408	
65	·519	·513	·508	·503	·497	·492	·487	·482	·476	·471	·466	·461	·455	·450	·445	·438	·434	·429	
66	·539	·534	·529	·524	·518	·513	·508	·502	·497	·492	·486	·481	·476	·470	·465	·460	·454	·449	
67	·563	·557	·552	·547	·542	·536	·531	·526	·520	·515	·510	·505	·499	·494	·489	·483	·478	·472	
68	·586	·581	·575	·570	·565	·559	·554	·549	·543	·538	·533	·528	·522	·517	·512	·506	·501	·496	
69	·610	·604	·599	·594	·588	·583	·578	·573	·567	·562	·557	·551	·546	·541	·535	·530	·525	·520	
70	·634	·629	·624	·618	·613	·608	·602	·597	·592	·586	·581	·576	·571	·565	·560	·555	·549	·544	
71	·659	·654	·649	·644	·638	·633	·628	·623	·617	·612	·606	·601	·596	·590	·585	·580	·575	·569	
72	·685	·680	·675	·670	·664	·659	·654	·648	·643	·638	·632	·627	·622	·616	·611	·606	·601	·595	
73	·712	·707	·702	·696	·691	·686	·680	·675	·670	·664	·659	·654	·649	·643	·638	·633	·627	·622	
74	·740	·735	·729	·724	·719	·713	·708	·703	·697	·692	·687	·681	·676	·671	·666	·660	·655	·650	
75	·768	·763	·758	·752	·747	·742	·737	·731	·726	·721	·715	·710	·705	·700	·694	·689	·683	·679	

TABLE XI,

For finding the Relative Humidity of the Air from the readings of the dry and wet bulb t thermometers, at the mean barometric pressure of 28.4 inches.

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																		
	0	.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9
15	100	93	86	79	72	66	60	54	49	42	38	33	28	23	19	15	11	7	3
16	100	93	86	79	73	67	62	56	49	44	39	35	30	25	21	17	13	10	6
17	100	94	87	80	74	68	62	57	52	46	41	36	32	27	23	19	16	12	9
18	100	94	87	80	74	69	63	58	53	48	43	38	34	29	25	22	18	15	11
19	100	94	87	81	75	70	64	59	54	49	45	40	36	31	28	24	20	17	14
20	100	94	88	82	76	70	65	60	55	51	46	42	37	33	29	26	22	19	16
21	100	94	88	82	76	71	66	61	57	52	47	43	39	35	31	28	25	21	18
22	100	94	88	83	77	72	67	62	58	53	49	45	41	37	33	30	27	23	20
23	100	94	88	83	78	73	68	63	59	54	50	46	42	39	35	32	28	25	22
24	100	95	89	84	78	74	69	64	59	55	52	48	44	40	37	33	30	27	24
25	100	95	89	84	79	74	69	65	61	57	53	49	45	41	39	35	32	29	26
26	100	95	90	85	79	75	70	66	62	58	54	50	46	43	40	37	34	31	28
27	100	95	90	85	80	76	71	67	63	59	55	51	48	44	41	38	35	32	30
28	100	95	90	85	81	76	72	68	64	60	56	53	49	46	43	40	36	34	31
29	100	95	90	86	81	77	73	69	65	61	57	54	51	47	44	41	38	35	33
30	100	95	90	86	82	77	74	69	65	62	59	55	52	49	46	43	40	37	35
31	100	95	91	87	82	78	74	70	67	63	60	56	53	50	47	44	41	38	36
32	100	95	90	86	82	78	74	70	66	62	59	55	52	49	46	43	40	38	35
33	100	95	90	86	82	78	74	71	67	63	60	56	53	50	47	44	42	39	37
34	100	95	90	87	83	79	75	71	68	64	61	57	54	51	48	45	43	40	38
35	100	96	91	87	83	79	76	72	68	65	62	58	55	52	49	47	44	41	39
36	100	96	91	87	83	80	76	73	69	66	62	59	56	54	50	48	45	42	40
37	100	96	91	88	84	80	77	73	70	67	63	60	57	54	51	49	46	43	41
38	100	96	92	88	84	81	77	74	70	67	64	61	58	55	52	50	47	44	42
39	100	96	92	88	84	81	78	74	71	68	65	62	59	56	53	51	48	46	43
40	100	96	92	88	85	81	78	75	72	68	66	63	60	57	54	52	49	47	44
41	100	96	92	89	85	82	78	75	72	69	66	64	61	58	55	53	50	48	45
42	100	96	93	89	85	82	79	76	73	70	67	64	62	59	56	53	51	49	46
43	100	96	93	89	86	82	79	76	73	70	68	65	62	60	57	54	52	50	47
44	100	96	93	89	86	83	80	77	74	71	68	65	63	60	58	55	53	50	48

TABLE XI,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 23.4 inches—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																	
	9'5	10	10'5	11	11'5	12	12'5	13	13'5	14	14'5	15	15'5	16	16'5	17	17'5	18
15	1																	
16	2																	
17	5	1																
18	7	5	1															
19	10	7	4	1														
20	12	9	6	3	1													
21	15	12	9	6	3	1												
22	17	14	11	8	6	3	1											
23	19	16	13	11	8	6	3	1										
24	21	18	15	13	10	8	6	4	1									
25	23	20	18	15	13	10	8	6	4	2								
26	25	22	20	17	15	13	11	8	6	4	2							
27	27	21	22	19	17	15	13	11	9	7	5	3						
28	29	26	24	21	19	17	15	13	11	9	7	5	3	1				
29	30	28	25	23	21	19	17	15	13	11	9	7	5	4	2			
30	32	30	27	25	23	21	19	17	15	13	11	9	8	6	4	3		
31	33	31	29	27	24	22	20	18	16	15	13	11	9	8	6	5	3	2
32	32	30	27	24	22	20	18	16	14	12	10	8	6	5	3	2	5	
33	34	31	29	26	24	22	20	18	16	14	12	10	9	7	5	4	2	1
34	35	33	30	28	25	23	21	20	18	16	14	12	11	9	7	6	4	3
35	36	34	32	29	27	25	23	21	19	18	16	14	12	11	9	8	6	5
36	37	35	33	31	28	26	25	23	21	19	17	16	14	13	11	10	8	6
37	39	36	34	32	30	28	26	24	22	21	19	17	16	14	13	11	9	8
38	40	38	36	33	31	29	27	26	24	22	20	19	17	16	14	13	11	10
39	41	39	37	35	32	31	29	27	25	24	22	20	19	17	16	14	13	11
40	42	40	38	36	34	32	30	29	27	25	23	22	20	18	17	16	14	13
41	43	41	39	37	35	33	31	30	28	26	25	23	22	20	18	17	16	14
42	44	42	40	38	36	34	33	31	29	28	26	24	23	21	20	18	17	16
43	45	43	41	39	37	35	34	32	30	29	27	25	24	22	21	20	18	17
44	46	44	42	40	38	37	35	33	31	30	28	27	25	24	22	21	20	18

TABLE XI,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 23.4 inches—(continued).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																		
	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9
45	100	96	93	90	86	83	80	77	74	71	68	66	63	61	59	56	54	51	49
46	100	96	93	90	87	83	80	77	75	72	69	67	64	61	59	57	55	52	50
47	100	96	93	90	87	84	81	78	75	72	70	67	65	62	60	57	55	53	51
48	100	97	93	90	87	84	81	78	75	73	70	68	65	63	61	58	56	54	52
49	100	97	93	90	87	84	81	79	76	73	71	68	66	64	61	59	57	54	52
50	100	97	93	91	88	85	82	79	76	74	71	69	66	64	62	60	58	55	53
51	100	97	91	91	88	85	82	79	77	74	72	69	67	65	62	60	59	56	54
52	100	97	91	91	88	85	82	80	77	75	72	70	67	65	63	61	59	57	55
53	100	97	94	91	88	85	83	80	78	75	73	70	68	66	64	62	60	57	56
54	100	97	94	91	88	86	83	80	78	76	73	71	68	66	64	62	60	58	56
55	100	97	94	91	88	86	83	81	78	76	74	71	69	67	65	63	61	59	57
56	100	97	94	91	89	86	83	81	79	76	74	72	69	67	65	63	61	59	57
57	100	97	94	92	89	86	84	81	79	77	74	72	70	67	66	64	62	60	58
58	100	97	94	92	89	86	84	81	79	77	75	72	70	68	66	64	62	60	59
59	100	97	94	92	89	87	84	82	79	77	75	73	71	69	67	65	63	61	59
60	100	97	95	92	89	87	84	82	80	77	75	73	71	69	67	65	63	61	60
61	100	97	95	92	90	87	84	82	80	78	76	73	71	70	68	66	64	62	60
62	100	97	95	92	90	87	85	82	80	78	76	74	72	70	68	66	64	62	61
63	100	97	95	92	90	87	85	83	80	78	76	74	72	70	68	67	65	63	61
64	100	97	95	92	90	88	85	83	81	78	77	74	73	71	69	67	65	63	62
65	100	97	95	92	90	88	86	83	81	79	77	75	73	71	69	67	66	64	62
66	100	97	95	92	90	88	86	83	81	79	77	75	73	71	70	68	66	64	63
67	100	97	95	93	90	88	86	84	81	79	78	76	74	72	70	68	67	65	63
68	100	97	95	93	90	88	86	84	82	79	78	76	74	71	70	68	67	65	63
69	100	97	95	93	91	88	86	84	82	80	78	76	74	72	71	69	67	66	64
70	100	98	95	93	91	89	86	84	82	80	78	76	75	73	71	69	68	66	64
71	100	98	95	93	91	89	86	84	82	80	78	77	75	73	71	70	68	66	65
72	100	98	95	93	91	89	87	85	82	80	79	77	75	73	72	70	68	67	65
73	100	98	95	93	91	89	87	85	83	81	79	77	75	73	72	70	68	67	65
74	100	98	95	93	91	89	87	85	83	81	79	77	75	73	72	71	69	67	66
75	100	98	95	93	91	89	87	85	83	81	80	78	76	74	73	71	69	68	66

TABLE XI,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 23.4 inches—(concluded).

Wet bulb t' .	VALUES OF $t-t'$ IN DEGREES, FAHRENHEIT.																	
	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18
45	47	45	43	41	39	38	36	34	33	31	29	28	27	25	24	23	21	20
46	48	46	44	42	40	39	37	35	34	32	30	29	28	26	25	24	22	21
47	49	47	45	43	41	40	38	36	35	33	32	30	29	27	26	25	23	22
48	50	48	46	44	42	41	39	37	36	34	33	31	30	28	27	26	24	23
49	51	49	47	45	43	42	40	38	37	35	34	32	31	29	28	27	25	24
50	51	50	48	46	44	43	41	39	38	36	35	33	32	31	29	28	27	25
51	52	50	49	47	45	43	42	40	39	37	36	34	33	32	30	29	28	26
52	53	51	50	48	46	44	43	41	40	38	37	35	34	32	31	30	29	27
53	53	52	50	49	47	45	44	42	41	39	38	36	35	33	32	31	30	28
54	54	53	51	49	48	46	45	43	41	40	39	37	36	34	33	32	31	29
55	55	53	51	50	48	47	46	44	42	41	39	38	36	35	34	33	31	30
56	56	54	52	50	49	47	46	45	43	41	40	39	37	36	35	33	32	31
57	56	55	53	51	49	48	47	45	44	42	41	39	38	37	35	34	33	32
58	57	55	54	52	50	49	47	46	44	43	42	40	39	38	36	35	34	32
59	57	56	54	53	51	49	48	46	45	44	42	41	40	38	37	36	34	33
60	58	56	55	53	52	50	49	47	46	44	43	42	40	39	38	37	35	34
61	58	57	55	54	52	51	49	48	46	45	43	42	41	40	39	37	36	35
62	59	57	56	54	53	51	50	48	47	45	44	43	42	40	39	38	37	36
63	59	58	56	55	53	52	50	49	47	46	44	43	42	41	40	39	38	37
64	60	58	57	55	54	52	51	49	48	46	45	44	43	41	40	39	38	37
65	61	59	57	56	54	53	51	50	48	47	46	45	43	42	41	40	39	38
66	61	59	58	56	55	53	52	50	49	48	46	45	44	43	42	41	39	38
67	62	60	58	57	55	54	52	51	49	48	47	46	45	44	42	41	40	39
68	62	60	59	57	56	54	53	51	50	49	48	47	46	44	43	42	41	40
69	62	61	59	58	56	55	53	52	50	49	48	47	46	45	44	43	41	40
70	63	61	60	58	57	55	54	52	51	50	49	48	47	45	44	43	42	41
71	63	62	60	59	57	56	54	53	51	50	49	48	47	46	45	44	43	42
72	64	62	61	59	58	56	55	53	52	51	50	48	47	46	45	44	43	42
73	64	63	61	60	58	57	55	54	53	52	50	49	48	47	46	45	44	43
74	64	63	61	60	59	57	56	55	53	52	51	50	49	47	46	45	44	43
75	65	63	62	60	59	58	56	55	54	53	52	50	49	48	47	46	45	44

TABLE XII,

For finding the Weight of Water Vapour, in Troy grains, in each cubic foot of air at each temperature, and for any given vapour tension p , as expressed in inches of mercury, in latitude 22°.

p .	TEMPERATURE OF AIR.												
	2°.	7°.	12°.	17°.	22°.	27°.	32°.	37°.	42°.	47°.	52°.	57°.	62°.
.001	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
.002	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
.003	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03
.004	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04
.005	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
.006	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
.007	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
.008	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
.009	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10
.010	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.11
.020	0.25	0.25	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.22	0.22	0.22
.030	0.37	0.37	0.36	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.34	0.33	0.33
.040	0.50	0.49	0.49	0.48	0.48	0.47	0.47	0.46	0.46	0.45	0.45	0.44	0.44
.050	0.62	0.61	0.61	0.60	0.59	0.59	0.58	0.58	0.57	0.57	0.56	0.55	0.55
.060	0.74	0.74	0.73	0.72	0.71	0.71	0.70	0.69	0.69	0.68	0.67	0.67	0.66
.070	0.87	0.86	0.85	0.84	0.83	0.82	0.82	0.81	0.80	0.79	0.78	0.78	0.77
.080	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.88
.090	1.12	1.10	1.09	1.08	1.07	1.06	1.05	1.04	1.03	1.02	1.01	1.00	0.99
.100	1.24	1.23	1.21	1.20	1.19	1.18	1.16	1.15	1.14	1.13	1.12	1.11	1.10
.200	2.48	2.46	2.43	2.40	2.38	2.35	2.33	2.31	2.28	2.26	2.24	2.22	2.20
.300	3.72	3.63	3.64	3.61	3.57	3.53	3.49	3.46	3.43	3.39	3.36	3.33	3.30
.400	4.96	4.91	4.86	4.81	4.76	4.71	4.66	4.62	4.57	4.52	4.48	4.44	4.39
.500	6.21	6.14	6.07	6.01	5.95	5.89	5.82	5.77	5.71	5.66	5.60	5.55	5.49
.600	7.45	7.37	7.29	7.21	7.14	7.06	6.99	6.92	6.85	6.79	6.72	6.66	6.59
.700	8.69	8.59	8.50	8.41	8.33	8.24	8.16	8.08	8.00	7.92	7.84	7.76	7.69
.800	9.93	9.82	9.72	9.62	9.52	9.42	9.33	9.23	9.14	9.05	8.96	8.87	8.79
.900	11.17	11.05	10.93	10.82	10.71	10.60	10.48	10.38	10.28	10.18	10.08	9.98	9.89
1.000	12.41	12.28	12.15	12.02	11.90	11.77	11.65	11.54	11.42	11.31	11.20	11.09	10.99
2.000	24.88	24.56	24.30	24.04	23.79	23.55	23.30	23.08	22.84	22.62	22.40	22.18	21.97

TABLE XII,

For finding the Weight of Water Vapour, in Troy grains, in each cubic foot of air at each temperature, and for any given vapour tension p , as expressed in inches of mercury, in latitude 22° —(continued).

p.	TEMPERATURE OF AIR.												
	67°.	72°.	77°.	82°.	87°.	92°.	97°.	102°.	107°.	112°.	117°.	122°.	127°.
.001	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
.002	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
.003	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
.004	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
.005	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
.006	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
.007	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
.008	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
.009	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
.010	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
.020	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20
.030	0.33	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.29
.040	0.44	0.43	0.43	0.42	0.42	0.42	0.41	0.41	0.40	0.40	0.40	0.39	0.39
.050	0.54	0.54	0.53	0.53	0.52	0.52	0.51	0.51	0.51	0.50	0.50	0.49	0.49
.060	0.65	0.65	0.64	0.63	0.63	0.62	0.62	0.61	0.61	0.60	0.60	0.59	0.59
.070	0.76	0.75	0.75	0.74	0.73	0.73	0.72	0.71	0.71	0.70	0.70	0.69	0.68
.080	0.87	0.86	0.85	0.85	0.84	0.83	0.82	0.82	0.81	0.80	0.80	0.79	0.78
.090	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.88	0.88
.100	1.09	1.08	1.07	1.06	1.05	1.04	1.03	1.02	1.01	1.00	0.99	0.99	0.98
.200	2.18	2.16	2.14	2.13	2.10	2.08	2.06	2.04	2.02	2.00	1.99	1.97	1.95
.300	3.26	3.23	3.20	3.17	3.15	3.12	3.09	3.06	3.03	3.01	2.98	2.96	2.93
.400	4.35	4.31	4.27	4.23	4.19	4.16	4.12	4.08	4.05	4.01	3.98	3.94	3.91
.500	5.44	5.39	5.34	5.29	5.24	5.20	5.15	5.10	5.06	5.01	4.97	4.93	4.89
.600	6.53	6.47	6.41	6.35	6.29	6.23	6.18	6.12	6.07	6.02	5.96	5.91	5.86
.700	7.62	7.55	7.48	7.41	7.34	7.27	7.21	7.14	7.08	7.02	6.96	6.90	6.84
.800	8.71	8.62	8.54	8.47	8.39	8.31	8.24	8.16	8.09	8.02	7.95	7.88	7.82
.900	9.79	9.70	9.61	9.52	9.44	9.35	9.27	9.19	9.10	9.03	8.95	8.87	8.79
1.000	10.88	10.78	10.68	10.59	10.49	10.39	10.30	10.21	10.12	10.03	9.94	9.86	9.77
2.000	21.77	21.56	21.36	21.16	20.97	20.78	20.59	20.41	20.23	20.06	19.88	19.71	19.54

